

**State of Illinois**  
**Department of Natural Resources**  
**Office of Mines and Minerals**  
**Division of Abandoned Mined Lands**

Funded by the  
 United States Department of Interior  
 Federal Office of Surface Mining

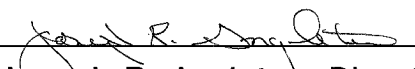
Tab Simco Phase III  
 Reclamation Project  
 AML-GJkE-0611  
 Jackson County  
 2LR

**SCHEDULE OF DRAWINGS:**

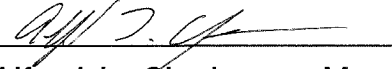
1. Cover Sheet
  2. Summary of Quantities/General Notes/Location Map/  
Survey Control Layout
  - 3-4. Existing/Proposed Conditions
  - 5-6. Proposed Grading
  7. Proposed Access Road
  - 8-19. Cross Sections
  - 20-24. Details
- IDOT STANDARD 665001-01 WOVEN WIRE FENCE

Prepared By IDNR Staff

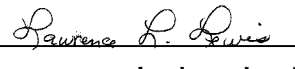
Approved for Bidding:

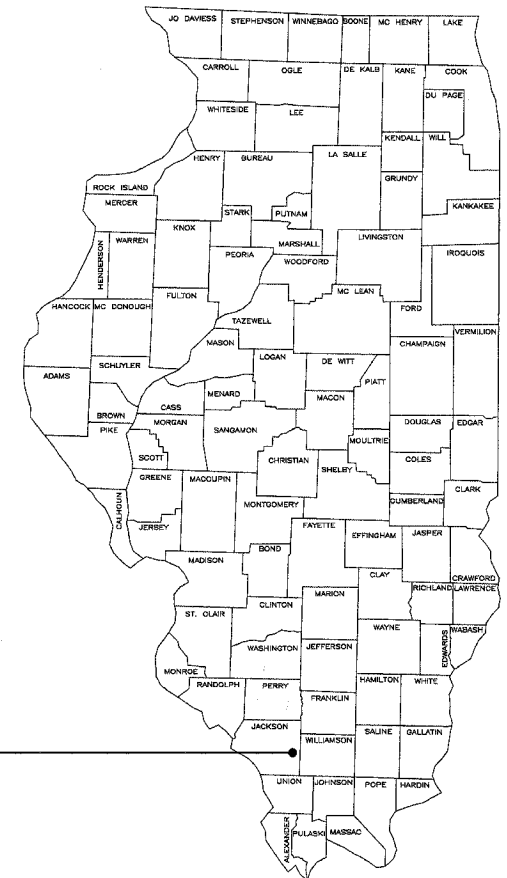
  
 Joseph R. Angleton, Director  
 Office of Mines and Minerals

Approved By:

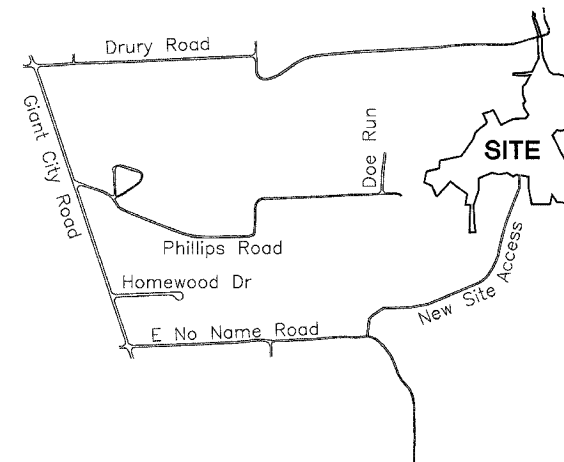
  
 Alfred L. Clayborne, Manager  
 AML Division

Approved By:

  
 Lawrence L. Lewis, P.E.  
 IL Licensed Professional Engineer  
 No. 0062-038880

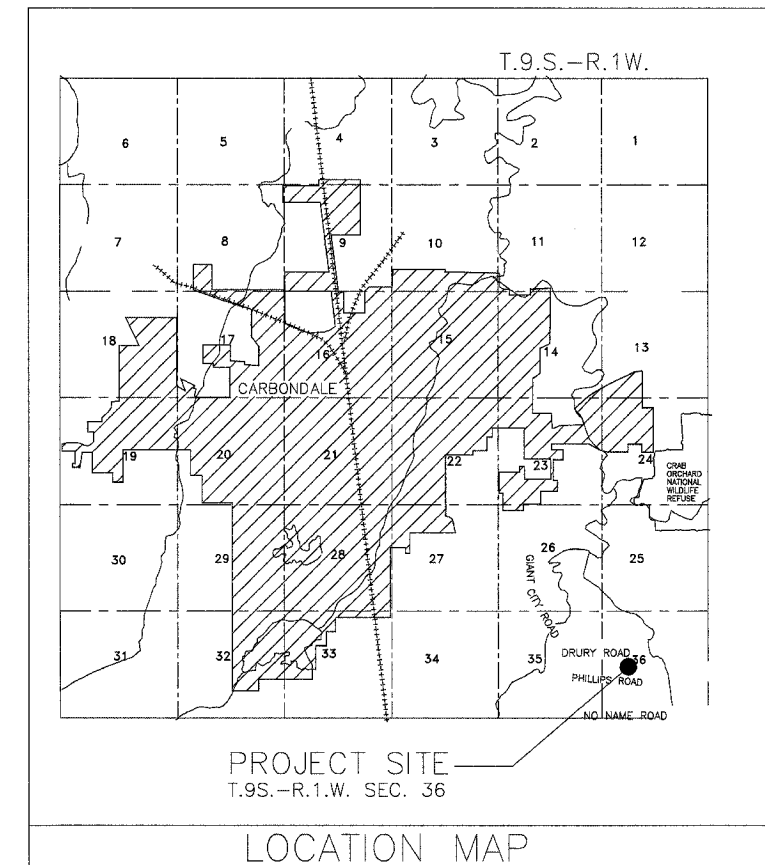


Tab Simco Phase III  
 Jackson County



Summary of Quantities

#	Item	Section	Quantity	Unit	Rates/Remarks
1	Special Clearing	201	1	L.S.	Landowner will have most of the trees cleared prior to the Bid Letting - Contractor's bid for Special Clearing to reflect this
2	Earth Excavation	202	92,930	C.Y.	Compaction Required as per Special Provision 205
3	Seeding	250	19	Acre	Seeding to be done between Jan. 1- March 15, 2008
4	Agricultural Ground Limestone	250	380	Ton	20 T/AC
5	Nitrogen Fertilizer Nutrient	250	3,800	Pound	100 LB/AC Twice - 2nd Application 8/20/08-9/30/08
6	Phosphorus Fertilizer Nutrient	250	2,850	Pound	150 LB/AC
7	Potassium Fertilizer Nutrient	250	6,650	Pound	350 LB/AC
8	Mulch, Method 2, Procedure 1	IDOT 251	19	Acre	2 T/AC
9	Mowing	258	19	Acre	
10	Perimeter Erosion Barrier	IDOT 280	464	Foot	Silt Filter Fence Required
11	Stone Riprap A-3	IDOT 281	1,331	S.Y.	
12	Stone Riprap A-4	IDOT 281	3,830	S.Y.	
13	Filter Fabric for use with Rip-Rap	IDOT 282	5,133	S.Y.	
14	Special Excelsior Blanket	286	12,758	S.Y.	8' Width
15	Aggregate Base Course, Type B CA-1	IDOT 351	918	Ton	CA-1 - Base for new road into Site
16	Aggregate Surface Course, Type B CA-6	IDOT 402	459	Ton	CA-6 Surface for New Road into Site
17	Pipe Culvert, 48" Dia. Type 1	IDOT 542	25	Foot	Corrugated PE with Smooth Interior - Drury Road
18	Pipe Culvert, 36" Dia. Type 1	IDOT 542	40	Foot	Corrugated PE with Smooth Interior - for access road
19	Pipe Culvert, 24" Dia. Type 1	IDOT 542	26	Foot	Corrugated PE with Smooth Interior - for access road
20	Pipe Culvert, 15" Dia. Type 1	IDOT 542	26	Foot	Corrugated PE with Smooth Interior - for access road
21	French Drains, Chert, Gradation CA-1	IDOT 601	120	Ton	Does not have to be IDOT certified but be CA-1 gradation
22	Geotechnical Fabric for French Drains	IDOT 601	270	S.Y.	
23	Woven Wire Fence	IDOT 665	1,221	Foot	Metal Posts Required
24	Woven Wire Gates	IDOT 665	2	Each	Double Gate with 10' Opening Required
25	Mobilization	671	1	L.S.	Maximum 6% of total bid
26	Agri-drain Structure Inline 10'x06"P	675	1	L.S.	Must be Agri-drain Corp. or equal
27	Wetlands Stop Log Structure	675	1	L.S.	
28	PVC Pipe - 6" Dia.	675	255	Foot	Includes anti-seep collars, fittings, rat guard, connections
29	Perforated PVC Pipe - 6" Dia.	675	839	Foot	Includes all fittings, elbows etc.
30	AMD-Fine Aggregate	675	249	Ton	FA-6 base below PVC pipes in AMD Treatment Cell
31	AMD-Coarse Aggregate	675	1,301	Ton	CA-1 aggregate around PVC pipes in AMD Treatment Cell
32	AMD-Filter Fabric	675	2,779	S.Y.	
33	AMD-Wood Chips	675	3,545	C.Y.	
34	AMD-Limestone	675	692	Ton	
35	AMD-Mulch	675	1,806	C.Y.	
36	AMD-Compost	675	736	C.Y.	



GENERAL NOTES

Unless otherwise noted on the plans, all disturbed areas within the construction limits will be amended with agricultural ground limestone, fertilizer nutrients, seeded and mulched at the required rates specified in the plans.

The contractor is responsible for visiting the site and familiarizing himself with the existing conditions and the proposed reclamation work prior to submitting a bid.

The contractor shall provide and pay for all field engineering services to execute the project as specified in the Field Engineering section of the Special Provisions.

The contractor is responsible for locating and protecting all existing utility lines pertaining to the work.

Unless noted on the plans, all onsite access roads may be used for construction and must be maintained during construction and restored to original or better condition at the completion of work by the contractor. Access roads to the site as designated in the plans are to be maintained to the satisfaction of the engineer.

The construction limits will be staked by the contractor prior to construction. The contractor is responsible for the repair and or restitution at his own expense for all damages done to any area outside the construction limits.

Application rates specified in the plans are shown in the Summary of Quantities-Rates/Remarks column.

CONSTRUCTION NOTES

BURIAL/REMOVAL OF MATERIAL-Concrete and masonry debris designated for burial by the engineer shall be buried at least three feet below proposed final grade. Onsite organic debris and trash shall be disposed of in an engineer approved offsite landfill in accordance with Sections 201 and 501 of the Special Provisions.

TREE REMOVAL -Trees removed shall be disposed of onsite per Section 201 of the Special Provisions.

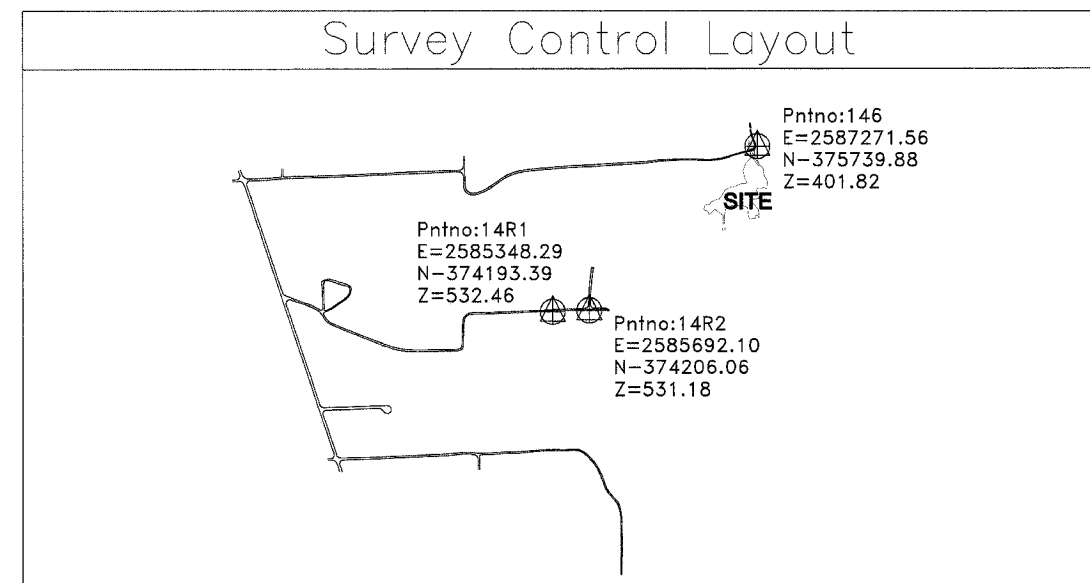
ACID WATER TREATMENT-If acid mine drainage treatment is determined necessary by the engineer, and not otherwise specified in the plans, any water treatment will be paid for in accordance with Article 109.04 of the Standard Specifications.

EROSION CONTROL-The contractor shall schedule his operations and take such precautions that may be necessary to prevent or minimize erosion. Failure to comply with this requirement shall cause the contractor to be fully responsible for repairing any eroded areas and cleaning up areas or drainage structures that have become silted in or damaged.

AGRICULTURAL GROUND LIMESTONE-Immediately prior to seed bed preparation, fertilizer nutrients and agricultural ground limestone shall be uniformly spread at the rates specified in the plans.

MULCHING-Within 24 hours from the time seeding has been performed, the seeded area shall be given a covering of mulch at the rates specified in the plans. The mulch is to be anchored into the soil in accordance with the requirements for method 2, procedure 2 of Article 251.03 of the Standard Specifications. If Excelsior or Special Excelsior Blanket is to be used, the blanket shall be placed the same day that the areas are seeded.

MONITORING WELLS TO BE REMOVED - shall be filled with concrete below final grade.



State of Illinois  
Department of Natural Resources


Tab Simco Phase III  
Reclamation Project  
AML-GJkE-0611  
Jackson County

Date: \_\_\_\_\_  
Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_

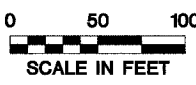
Summary of Quantities/  
General Notes/Location Map/  
Survey Control Layout

- 99 --- EXISTING CONTOUR
- 500 — PROPOSED CONTOUR
- — — CONSTRUCTION LIMITS
- — — EDGE OF ROAD
- — — TREELINE
- — — EDGE OF WATER
- ⊕ B-# — BORING
- ⊕ AS-# — ACID SEEP
- ⊕ SURVEY CONTROL POINT

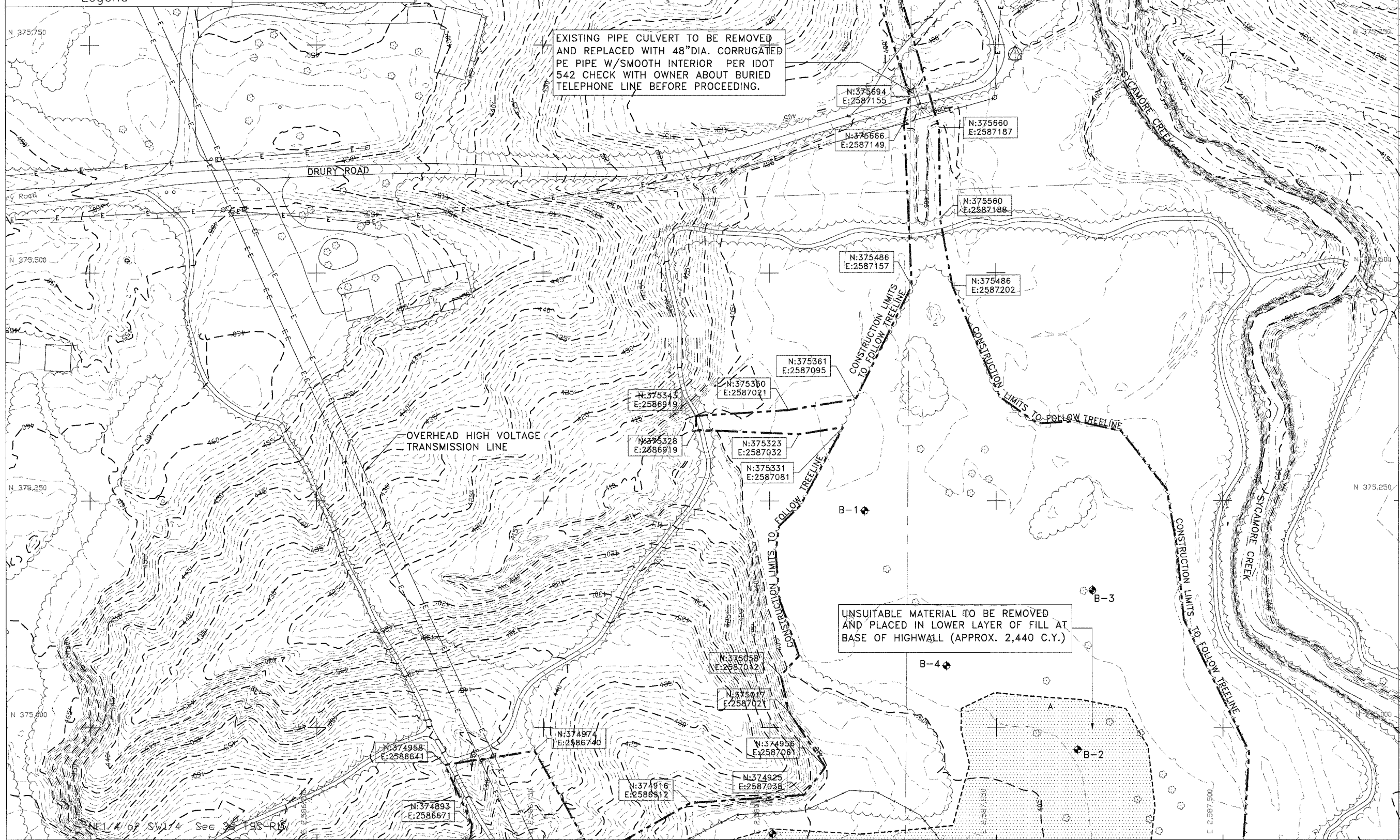
**TAB SIMCO  
Phase III**



N



0 50 100  
SCALE IN FEET



EXISTING PIPE CULVERT TO BE REMOVED AND REPLACED WITH 48" DIA. CORRUGATED PE PIPE W/SMOOTH INTERIOR PER IDOT 542 CHECK WITH OWNER ABOUT BURIED TELEPHONE LINE BEFORE PROCEEDING.

UNSUITABLE MATERIAL TO BE REMOVED AND PLACED IN LOWER LAYER OF FILL AT BASE OF HIGHWALL (APPROX. 2,440 C.Y.)

Legend

SEE SHEET 4

State of Illinois  
Department of Natural Resources

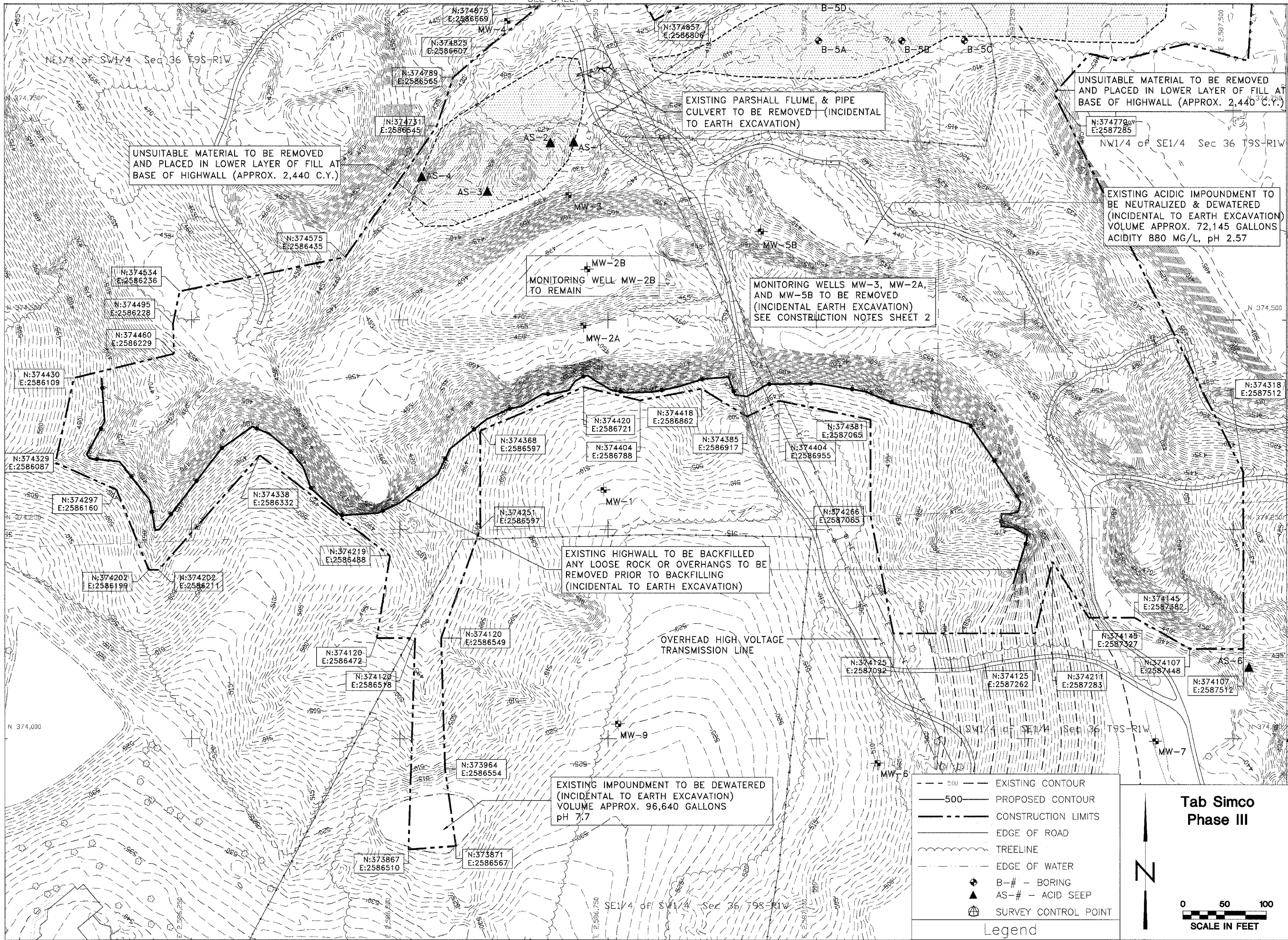
Tab Simco Phase III  
Reclamation Project  
AML-GJkE-0611  
Jackson County

Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
Date: \_\_\_\_\_

Existing/Proposed Conditions  
North Half of Site  
Sheet  
3 of 24



SEE SHEET 3



UNSUITABLE MATERIAL TO BE REMOVED AND PLACED IN LOWER LAYER OF FILL AT BASE OF HIGHWALL (APPROX. 2,440 C.Y.)

EXISTING PARSHALL FLUME & PIPE CULVERT TO BE REMOVED (INCIDENTAL TO EARTH EXCAVATION)

UNSUITABLE MATERIAL TO BE REMOVED AND PLACED IN LOWER LAYER OF FILL AT BASE OF HIGHWALL (APPROX. 2,440 C.Y.)

EXISTING ACIDIC IMPOUNDMENT TO BE NEUTRALIZED & DEWATERED (INCIDENTAL TO EARTH EXCAVATION) VOLUME APPROX. 72,145 GALLONS ACIDITY 880 MG/L, pH 2.57

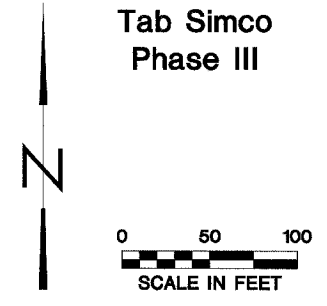
MONITORING WELL MW-2B TO REMAIN

MONITORING WELLS MW-3, MW-2A, AND MW-5B TO BE REMOVED (INCIDENTAL EARTH EXCAVATION) SEE CONSTRUCTION NOTES SHEET 2

EXISTING HIGHWALL TO BE BACKFILLED ANY LOOSE ROCK OR OVERHANGS TO BE REMOVED PRIOR TO BACKFILLING (INCIDENTAL TO EARTH EXCAVATION)

EXISTING IMPOUNDMENT TO BE DEWATERED (INCIDENTAL TO EARTH EXCAVATION) VOLUME APPROX. 96,640 GALLONS pH 7.7

- Legend
- - - 500 - - - EXISTING CONTOUR
  - 500 — PROPOSED CONTOUR
  - - - - - CONSTRUCTION LIMITS
  - — — — — EDGE OF ROAD
  - ~~~~~ TREELINE
  - - - - - EDGE OF WATER
  - ⊕ B-# - BORING
  - ▲ AS-# - ACID SEEP
  - ⊙ SURVEY CONTROL POINT



State of Illinois  
Department of Natural Resources

Tab Simco Phase III  
Reclamation Project  
AML-GJkE-0611  
Jackson County


Date: \_\_\_\_\_  
Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_

Existing/Proposed Conditions  
South Half of Site  
Sheet  
4 of 24

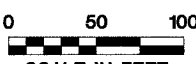
- 500 --- EXISTING CONTOUR
- 500 — PROPOSED CONTOUR
- — — CONSTRUCTION LIMITS
- — — EDGE OF ROAD
- — — TREELINE
- — — EDGE OF WATER
- ⊕ B-# - BORING
- ⊕ SURVEY CONTROL POINT

Legend

**Tab Simco  
Phase III**



N



0 50 100  
SCALE IN FEET

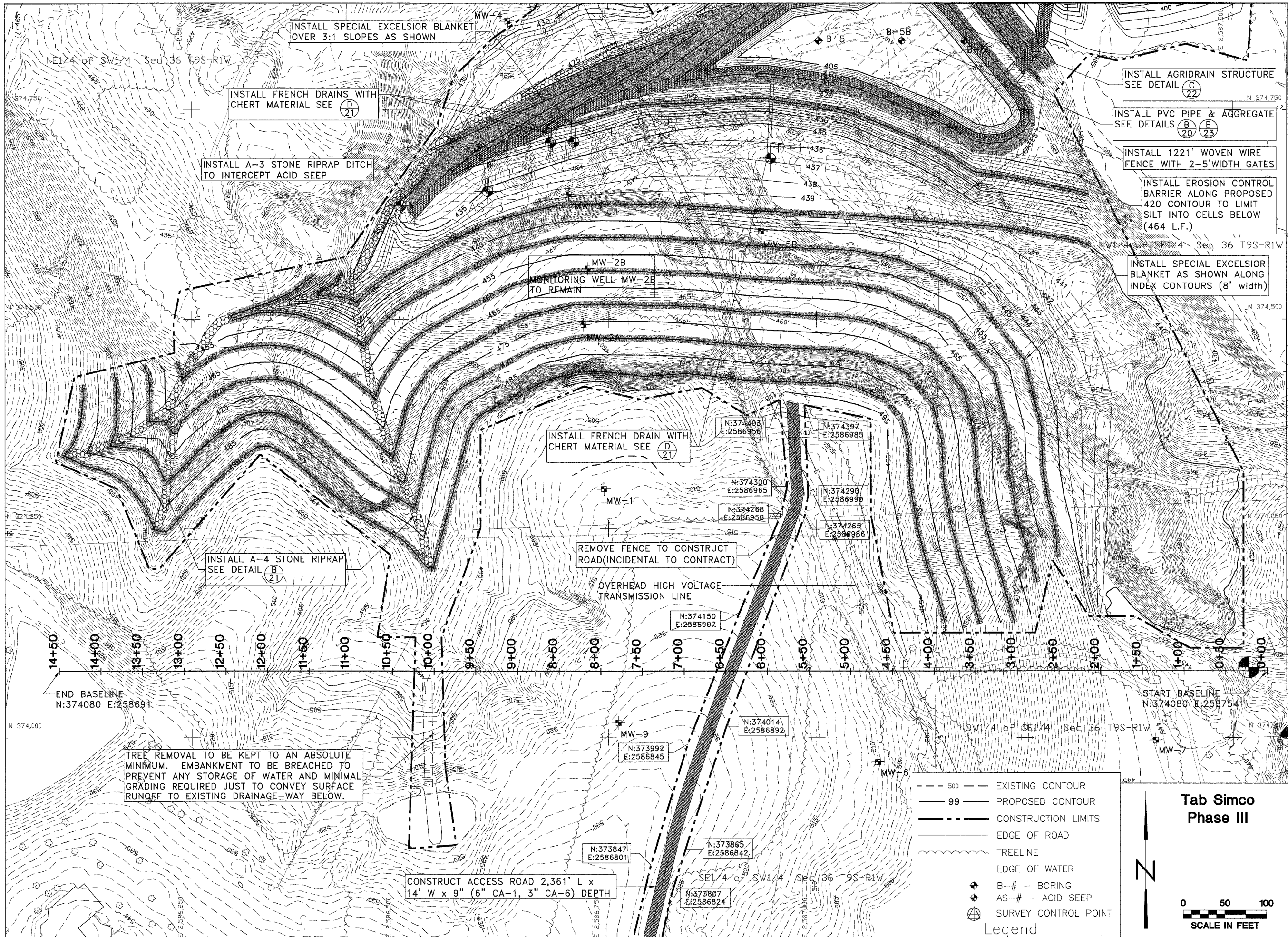


SEE SHEET                      SEE SHEET 6

Drawn By: \_\_\_\_\_ Date: \_\_\_\_\_

Checked By: \_\_\_\_\_





INSTALL SPECIAL EXCELSIOR BLANKET OVER 3:1 SLOPES AS SHOWN

INSTALL FRENCH DRAINS WITH CHERT MATERIAL SEE (D) 21

INSTALL A-3 STONE RIPRAP DITCH TO INTERCEPT ACID SEEP

INSTALL AGRIDRAIN STRUCTURE SEE DETAIL (C) 22

INSTALL PVC PIPE & AGGREGATE SEE DETAILS (B) 20 (B) 23

INSTALL 1221' WOVEN WIRE FENCE WITH 2-5' WIDTH GATES

INSTALL EROSION CONTROL BARRIER ALONG PROPOSED 420 CONTOUR TO LIMIT SILT INTO CELLS BELOW (464 L.F.)

INSTALL SPECIAL EXCELSIOR BLANKET AS SHOWN ALONG INDEX CONTOURS (8' width)

MONITORING WELL MW-2B TO REMAIN

INSTALL FRENCH DRAIN WITH CHERT MATERIAL SEE (D) 21

REMOVE FENCE TO CONSTRUCT ROAD (INCIDENTAL TO CONTRACT)

OVERHEAD HIGH VOLTAGE TRANSMISSION LINE

INSTALL A-4 STONE RIPRAP SEE DETAIL (B) 21

TREE REMOVAL TO BE KEPT TO AN ABSOLUTE MINIMUM. EMBANKMENT TO BE BREACHED TO PREVENT ANY STORAGE OF WATER AND MINIMAL GRADING REQUIRED JUST TO CONVEY SURFACE RUNOFF TO EXISTING DRAINAGE WAY BELOW.

CONSTRUCT ACCESS ROAD 2,361' L x 14' W x 9" (6" CA-1, 3" CA-6) DEPTH

- Legend
- 500 --- EXISTING CONTOUR
  - 99 --- PROPOSED CONTOUR
  - --- CONSTRUCTION LIMITS
  - --- EDGE OF ROAD
  - --- TREELINE
  - --- EDGE OF WATER
  - ◆ B-# - BORING
  - ◆ AS-# - ACID SEEP
  - SURVEY CONTROL POINT

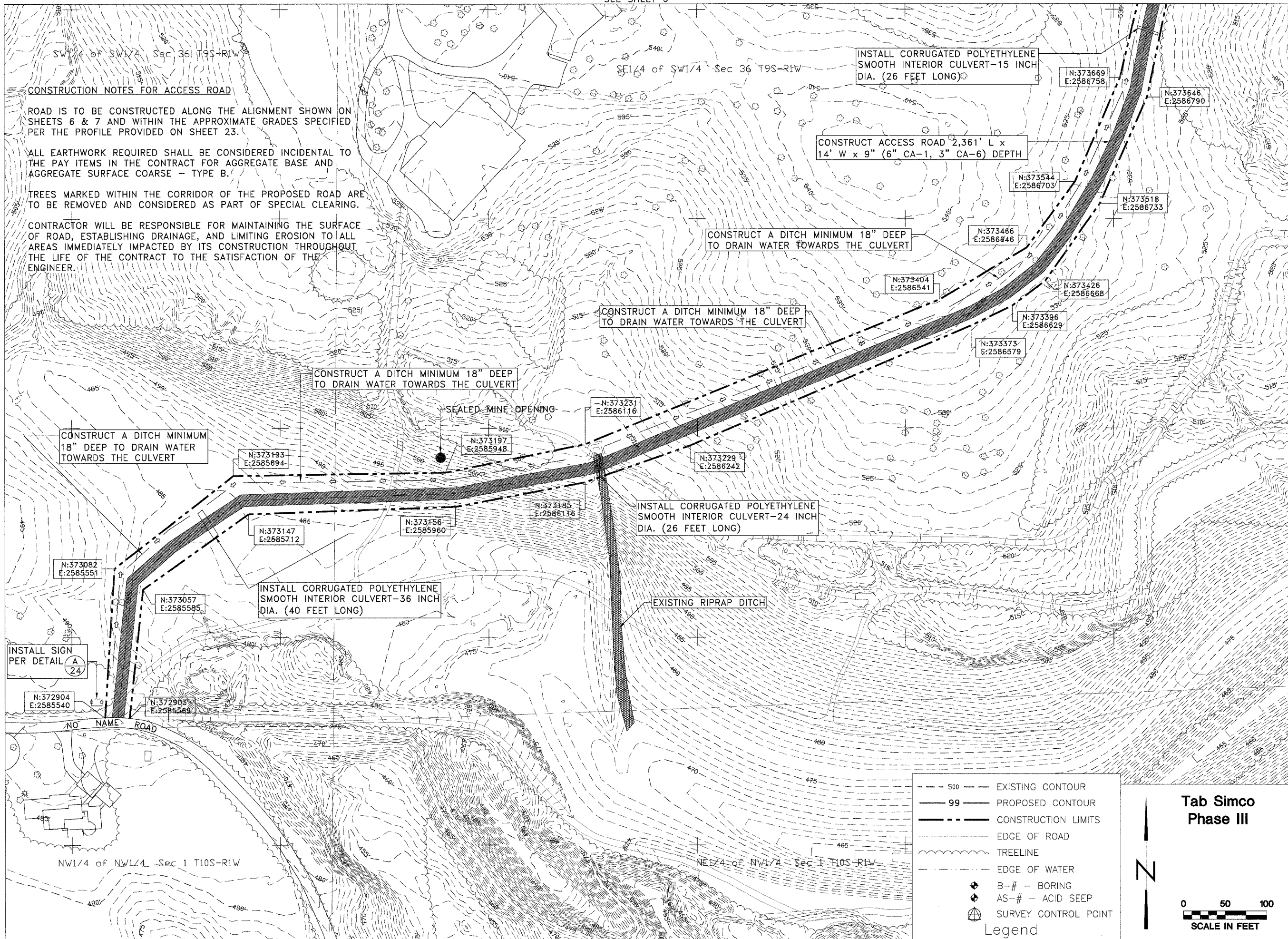
**Tab Simco Phase III**

0 50 100  
SCALE IN FEET

Date: \_\_\_\_\_

Drawn By: \_\_\_\_\_

Checked By: \_\_\_\_\_



**CONSTRUCTION NOTES FOR ACCESS ROAD**

ROAD IS TO BE CONSTRUCTED ALONG THE ALIGNMENT SHOWN ON SHEETS 6 & 7 AND WITHIN THE APPROXIMATE GRADES SPECIFIED PER THE PROFILE PROVIDED ON SHEET 23.

ALL EARTHWORK REQUIRED SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS IN THE CONTRACT FOR AGGREGATE BASE AND AGGREGATE SURFACE COARSE - TYPE B.

TREES MARKED WITHIN THE CORRIDOR OF THE PROPOSED ROAD ARE TO BE REMOVED AND CONSIDERED AS PART OF SPECIAL CLEARING.

CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE SURFACE OF ROAD, ESTABLISHING DRAINAGE, AND LIMITING EROSION TO ALL AREAS IMMEDIATELY IMPACTED BY ITS CONSTRUCTION THROUGHOUT THE LIFE OF THE CONTRACT TO THE SATISFACTION OF THE ENGINEER.

INSTALL CORRUGATED POLYETHYLENE SMOOTH INTERIOR CULVERT-15 INCH DIA. (26 FEET LONG)

CONSTRUCT ACCESS ROAD 2,361' L x 14' W x 9" (6" CA-1, 3" CA-6) DEPTH

CONSTRUCT A DITCH MINIMUM 18" DEEP TO DRAIN WATER TOWARDS THE CULVERT

CONSTRUCT A DITCH MINIMUM 18" DEEP TO DRAIN WATER TOWARDS THE CULVERT

CONSTRUCT A DITCH MINIMUM 18" DEEP TO DRAIN WATER TOWARDS THE CULVERT

CONSTRUCT A DITCH MINIMUM 18" DEEP TO DRAIN WATER TOWARDS THE CULVERT

SEALED MINE OPENING

INSTALL CORRUGATED POLYETHYLENE SMOOTH INTERIOR CULVERT-24 INCH DIA. (26 FEET LONG)

EXISTING RIPRAP DITCH

INSTALL CORRUGATED POLYETHYLENE SMOOTH INTERIOR CULVERT-36 INCH DIA. (40 FEET LONG)

INSTALL SIGN PER DETAIL A 24

NO NAME ROAD

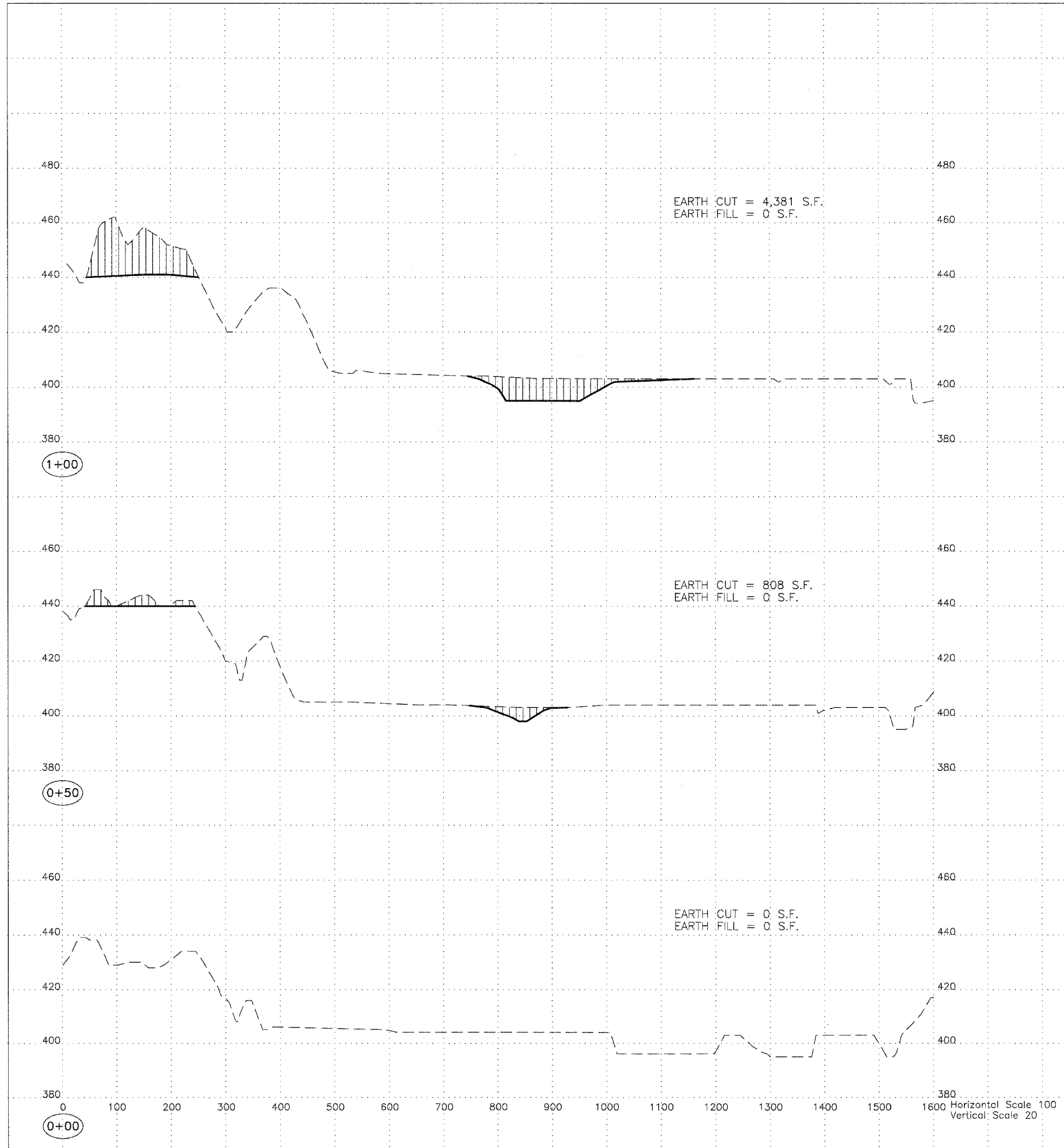
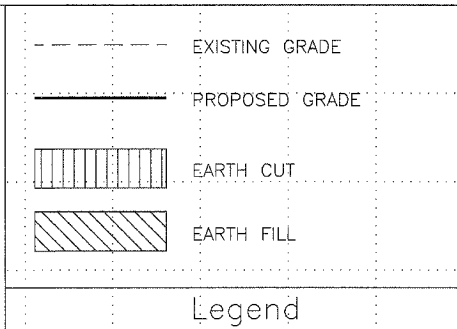
---	EXISTING CONTOUR
---	PROPOSED CONTOUR
---	CONSTRUCTION LIMITS
---	EDGE OF ROAD
---	TREELINE
---	EDGE OF WATER
+	B-# - BORING
+	AS-# - ACID SEEP
+	SURVEY CONTROL POINT

Legend

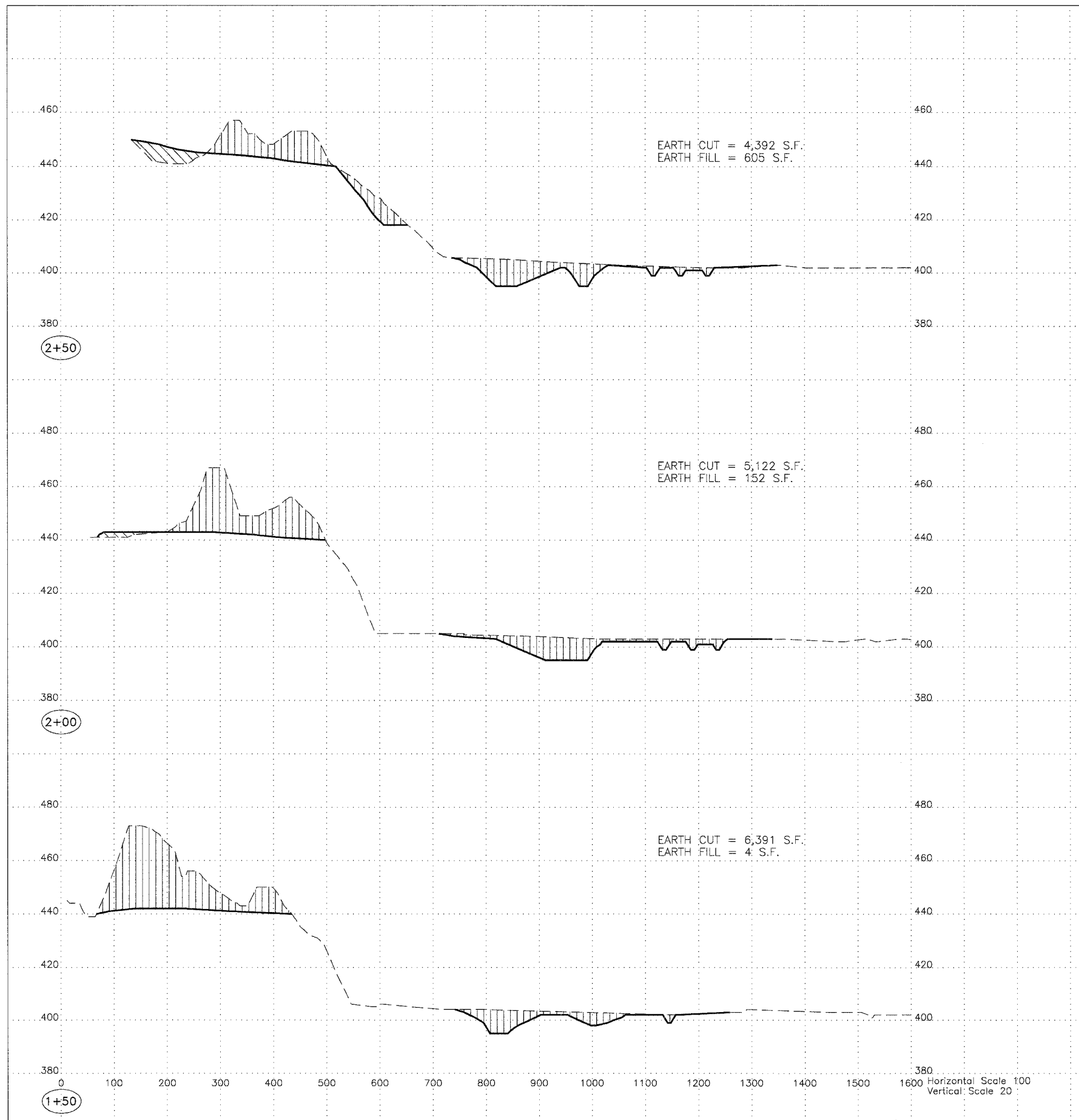
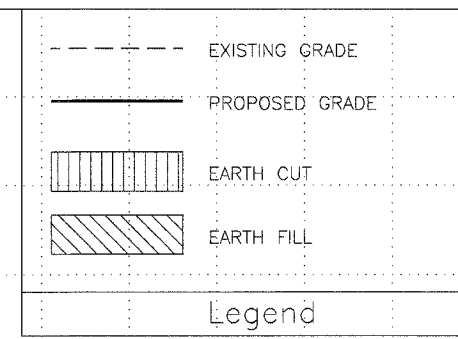
**Tab Simco Phase III**

0 50 100  
SCALE IN FEET

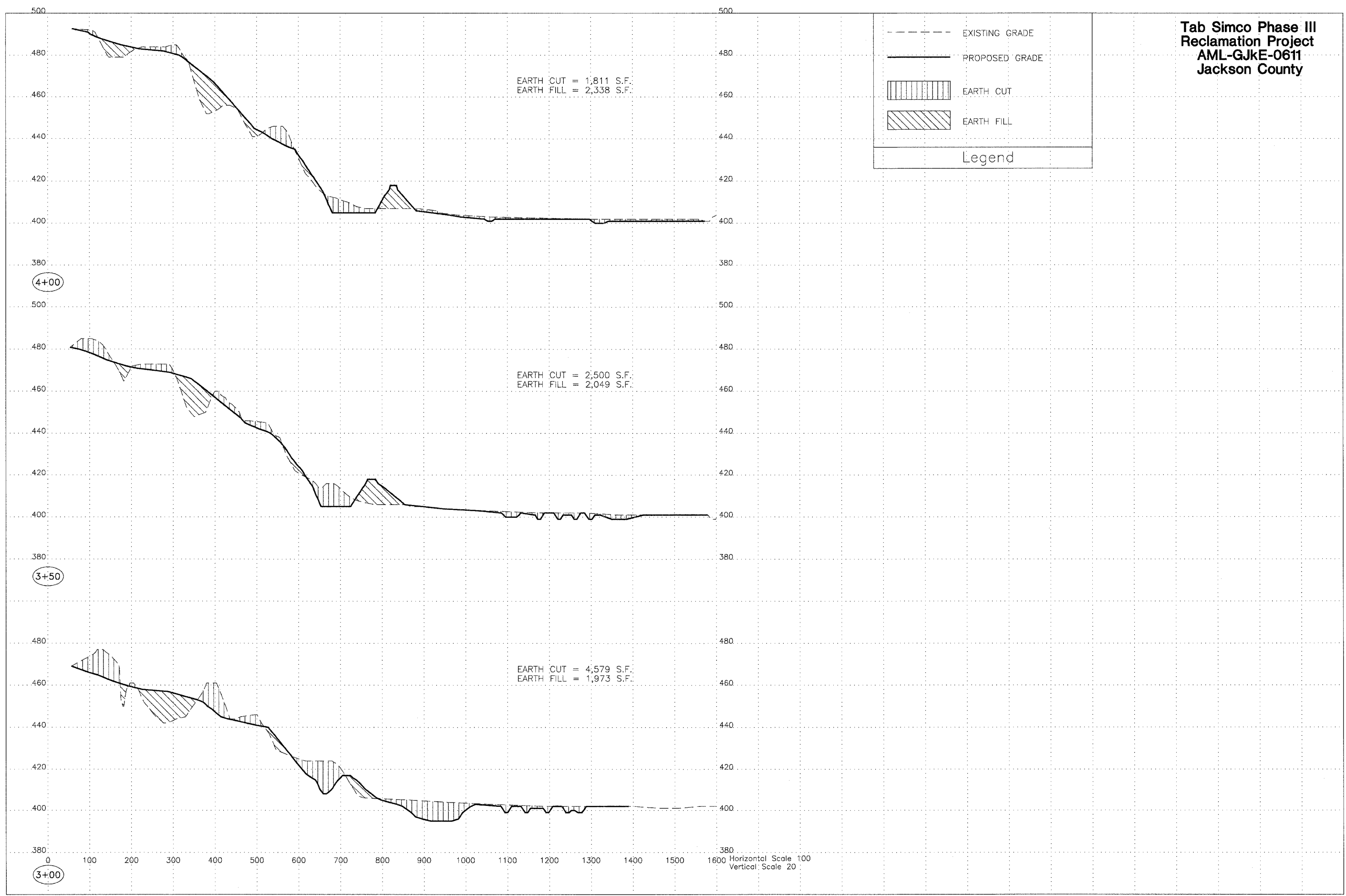
Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
Date: \_\_\_\_\_



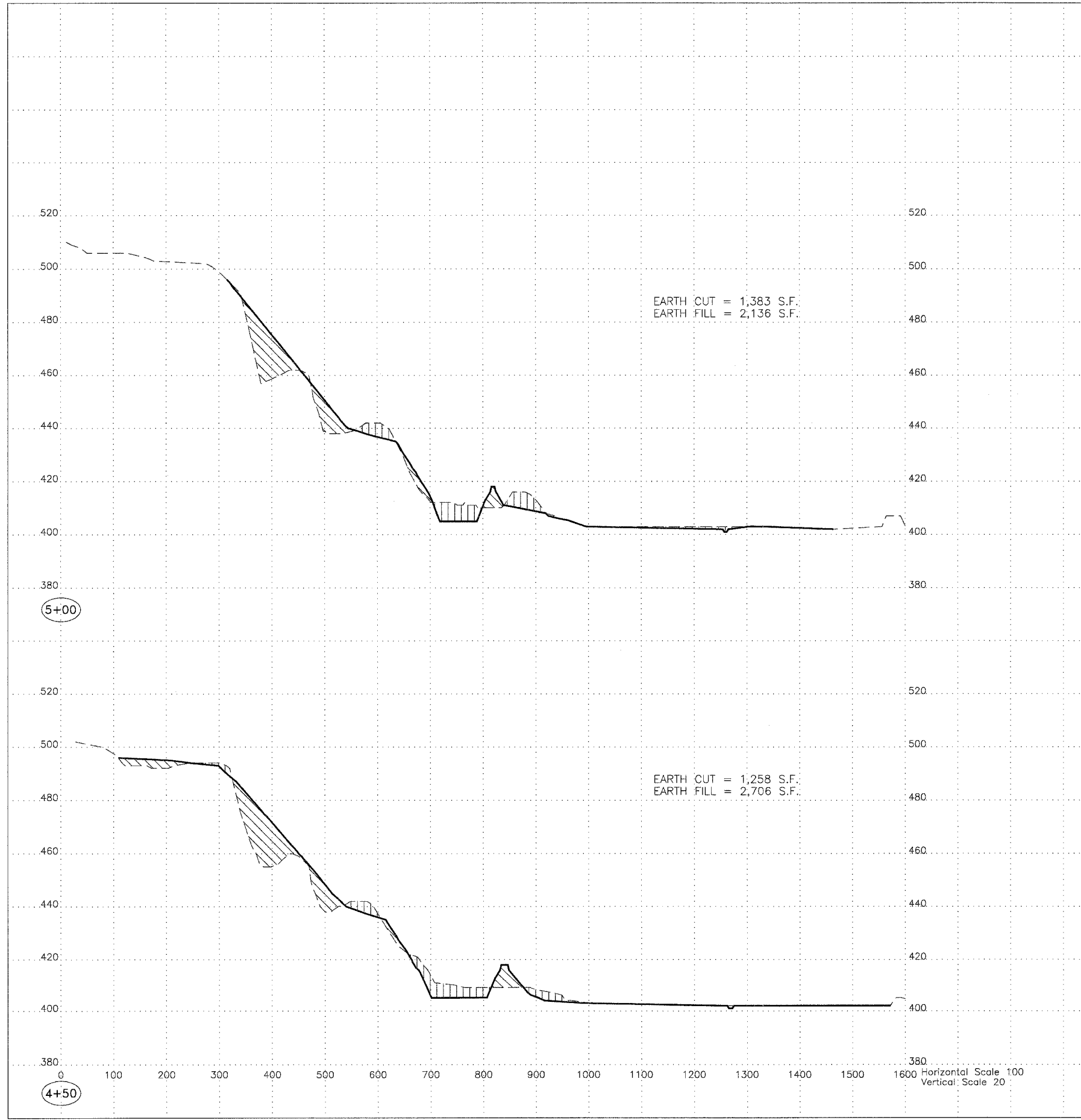
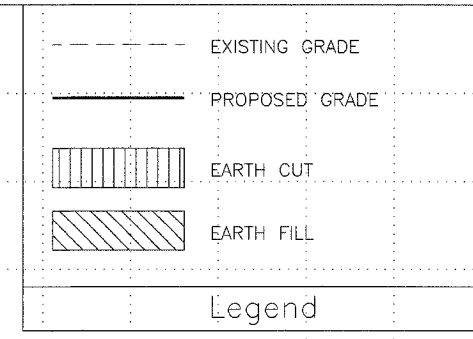




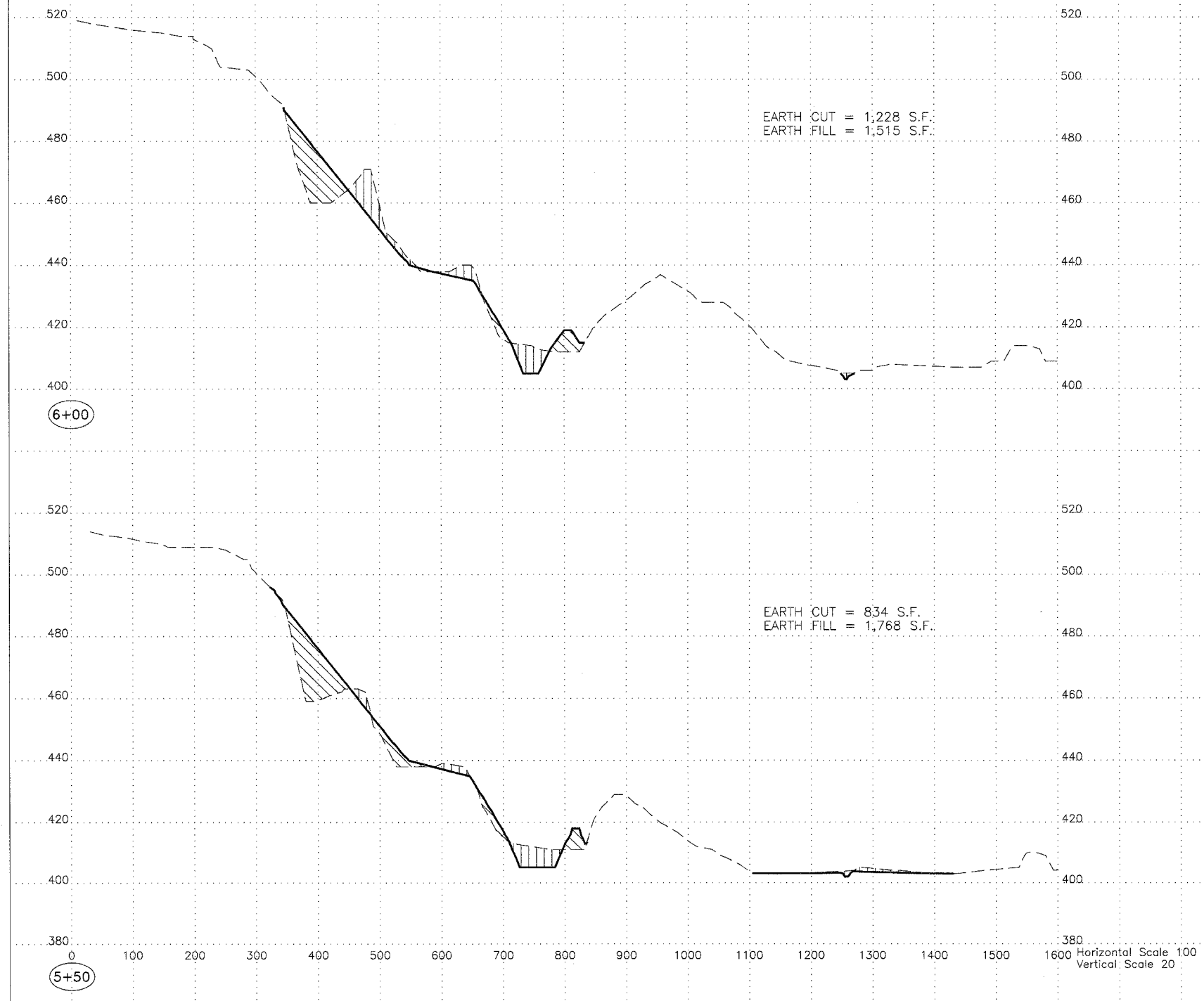
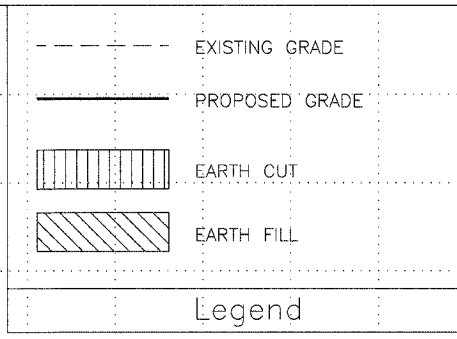
**Tab Simco Phase III  
Reclamation Project  
AML-GJKE-0611  
Jackson County**

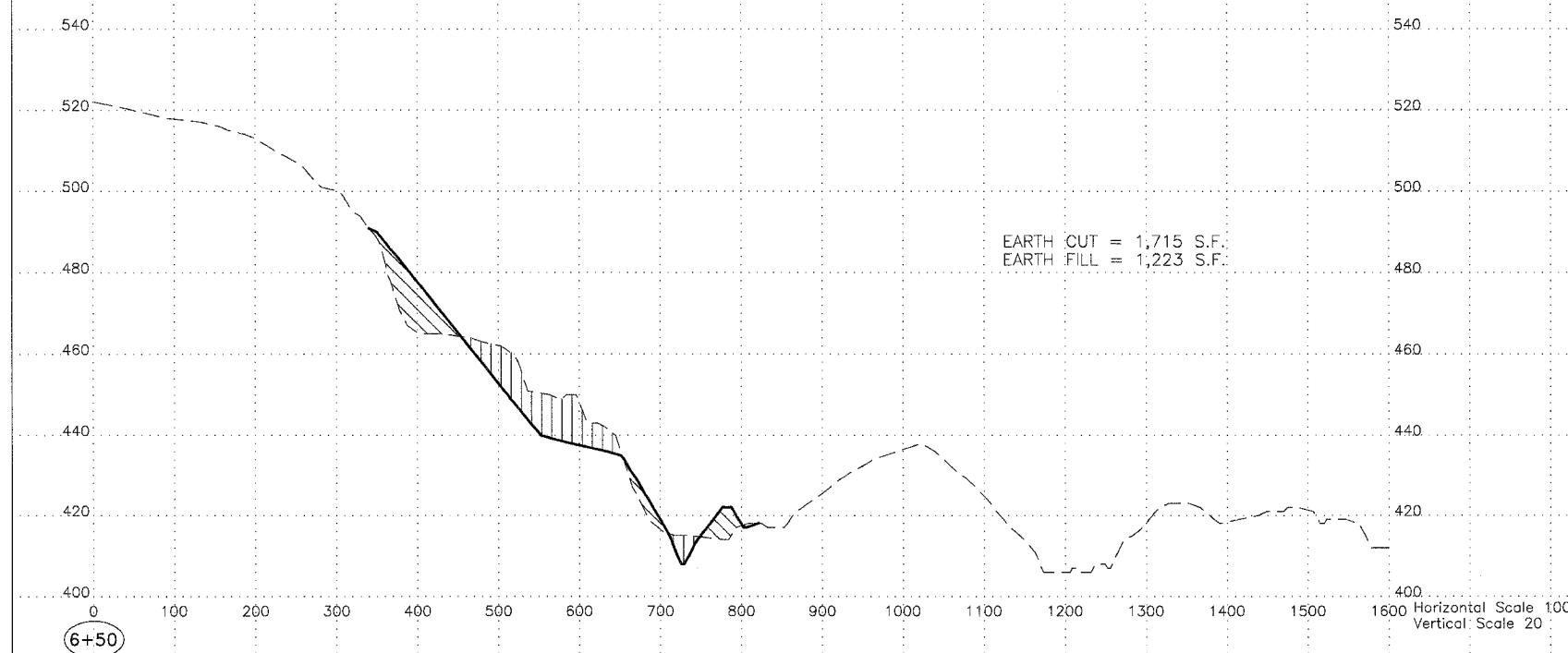
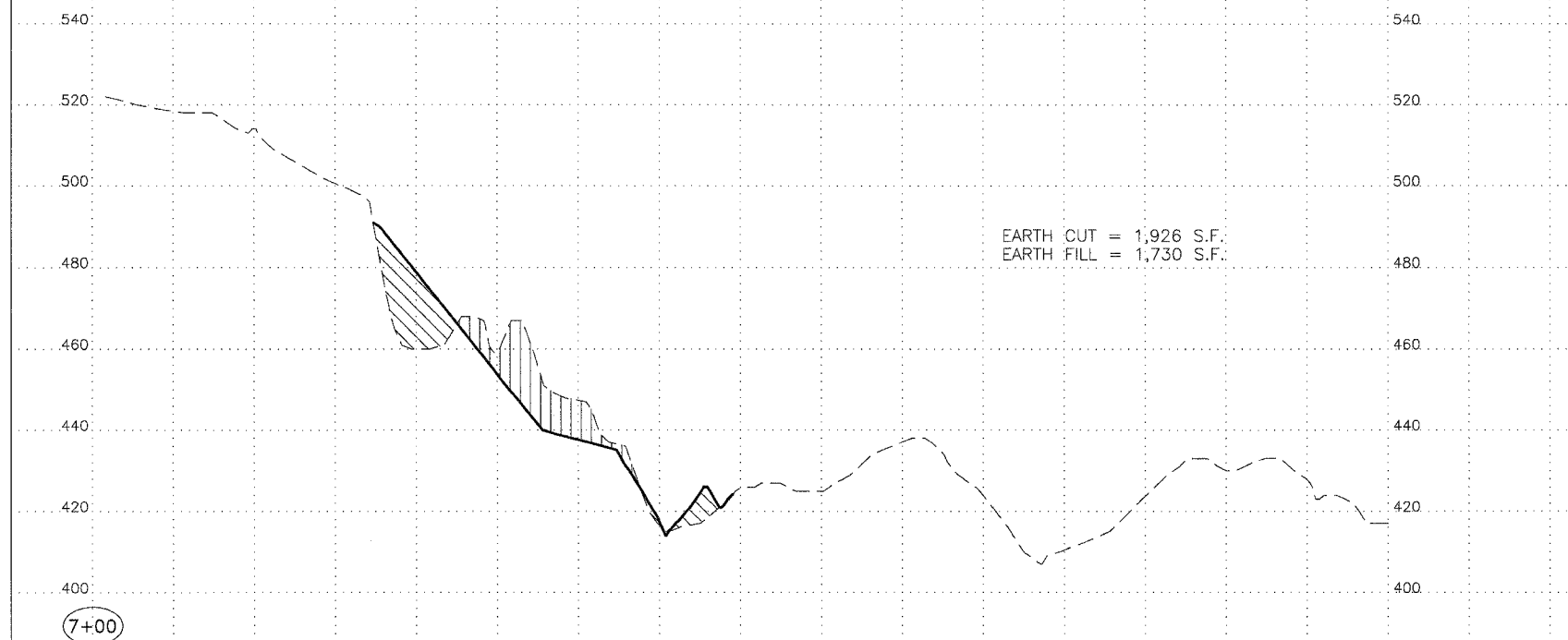
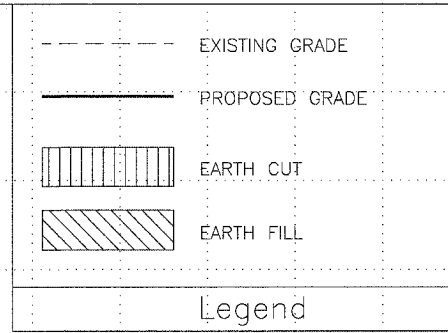


Tab Simco Phase III  
 Reclamation Project  
 AML-GJkE-0611  
 Jackson County

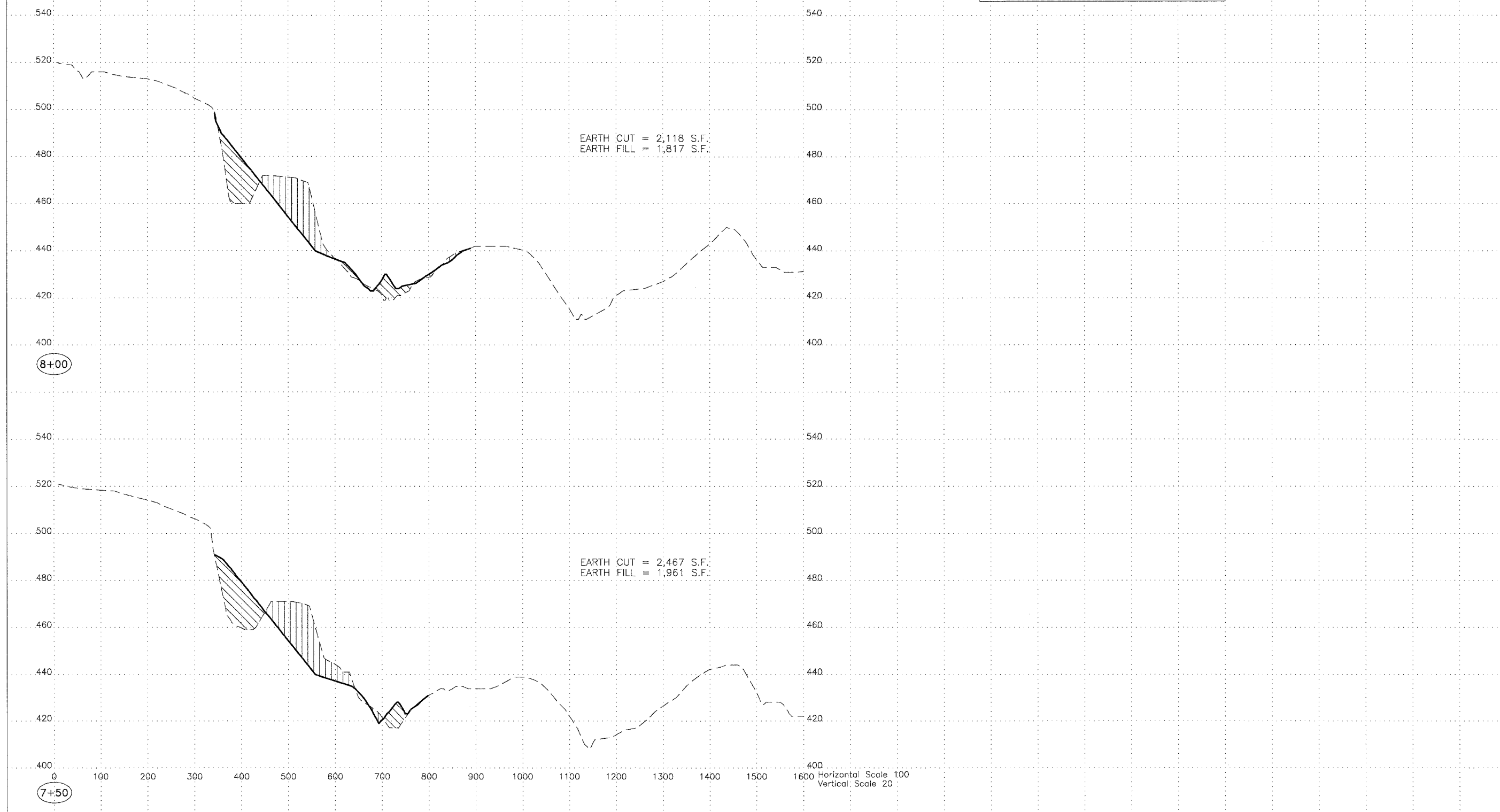
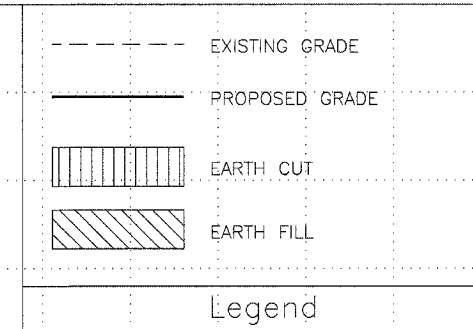




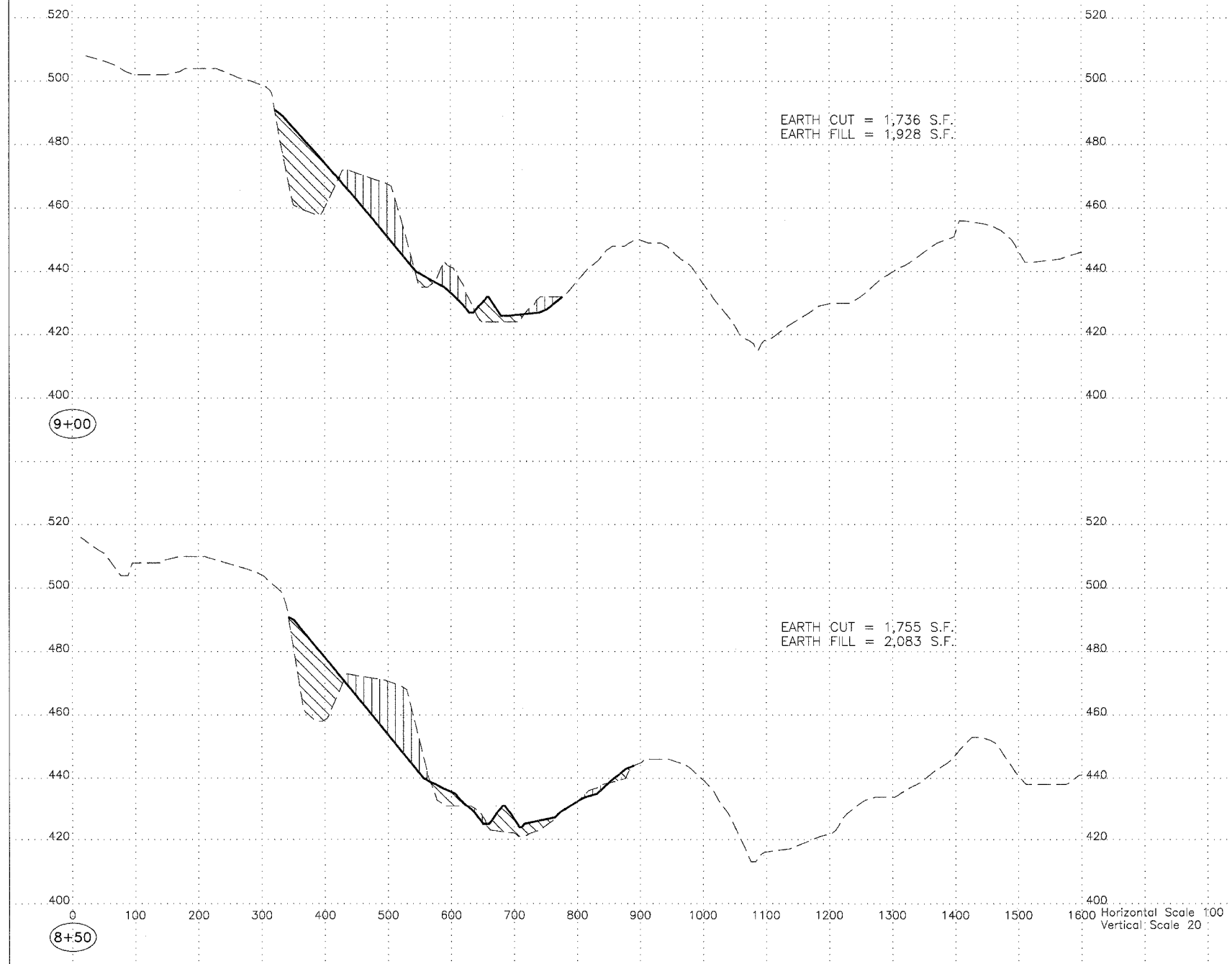
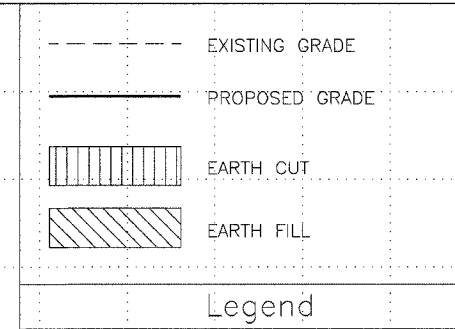


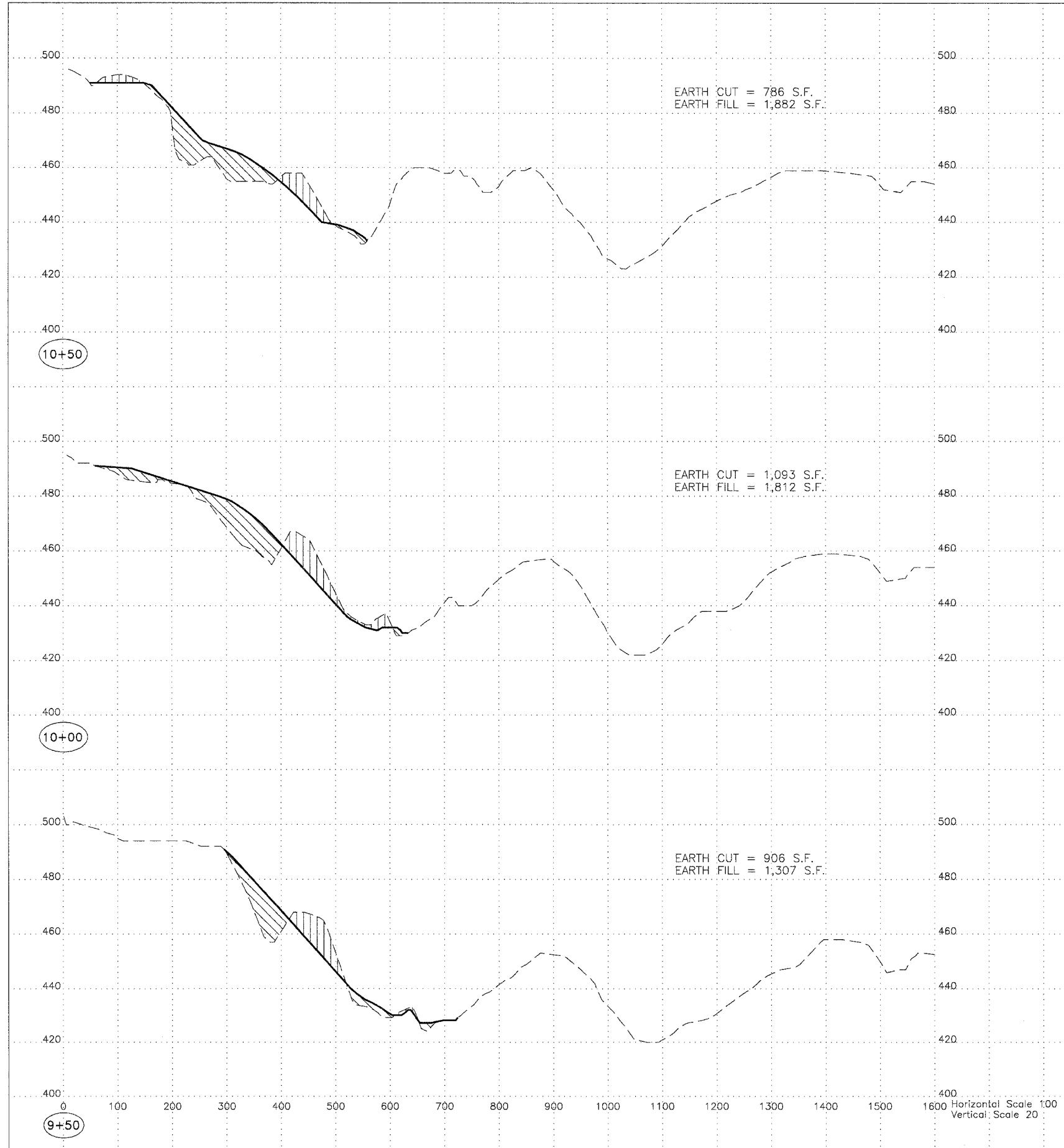
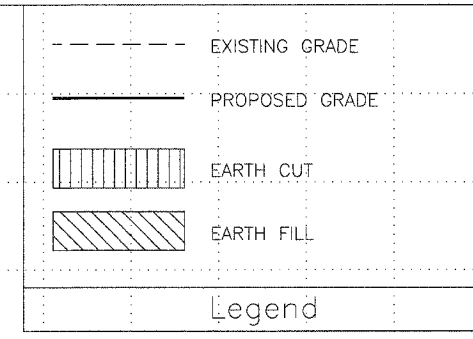


Horizontal Scale 100  
Vertical Scale 20

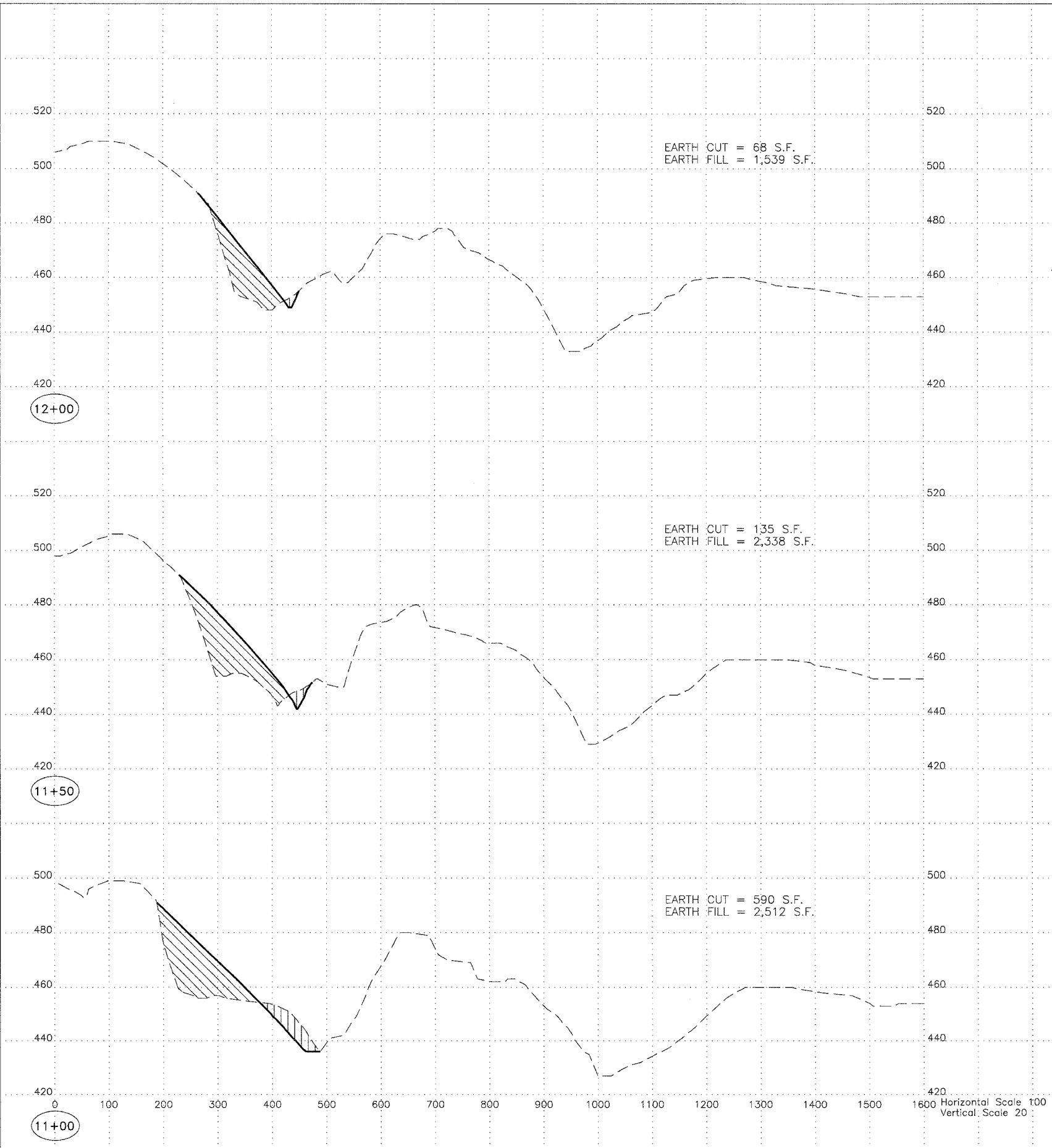
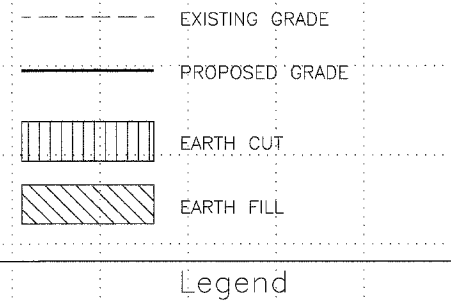




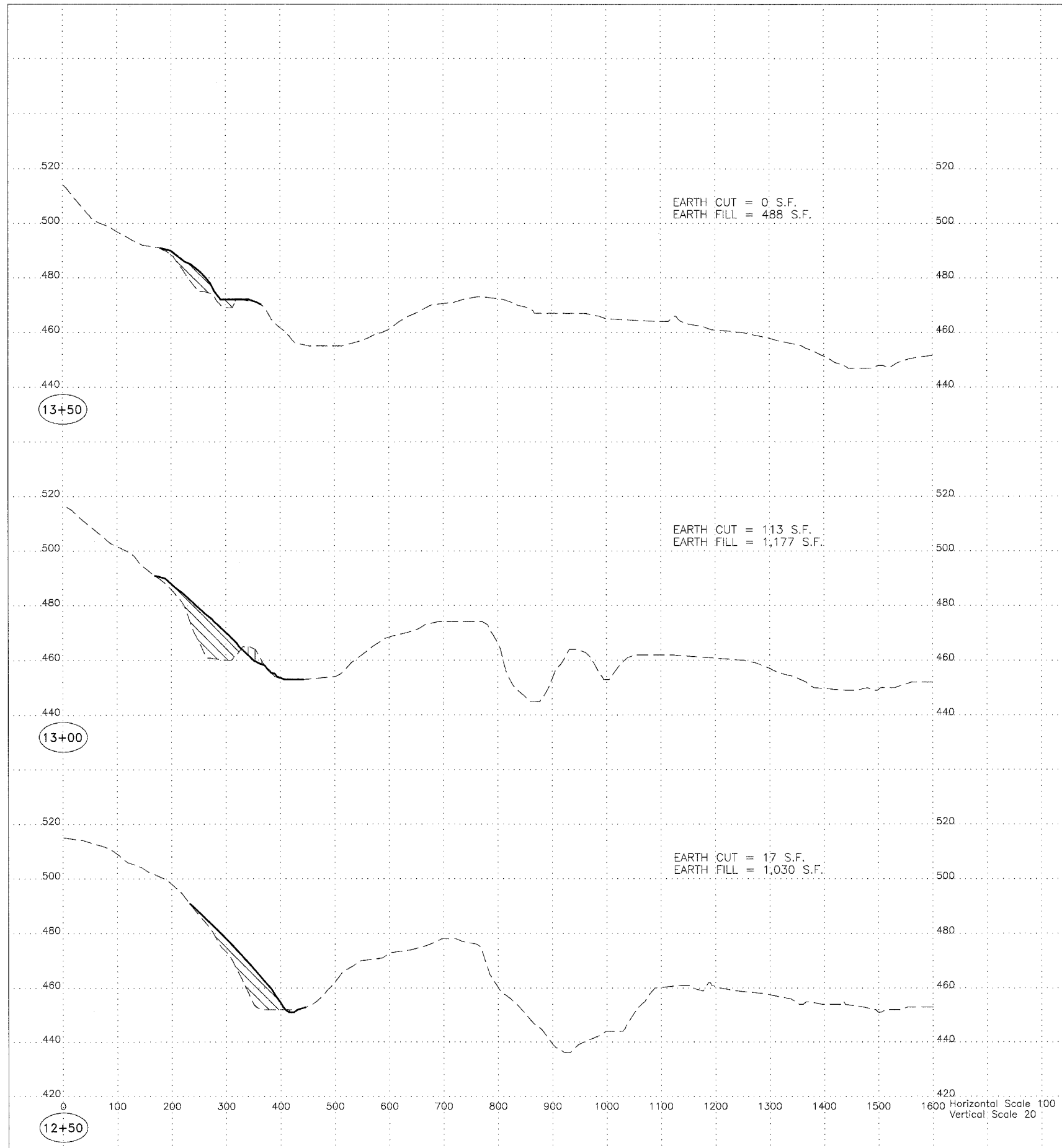
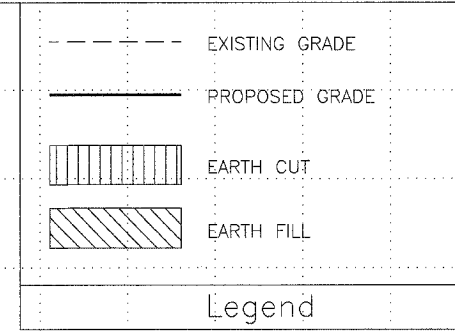


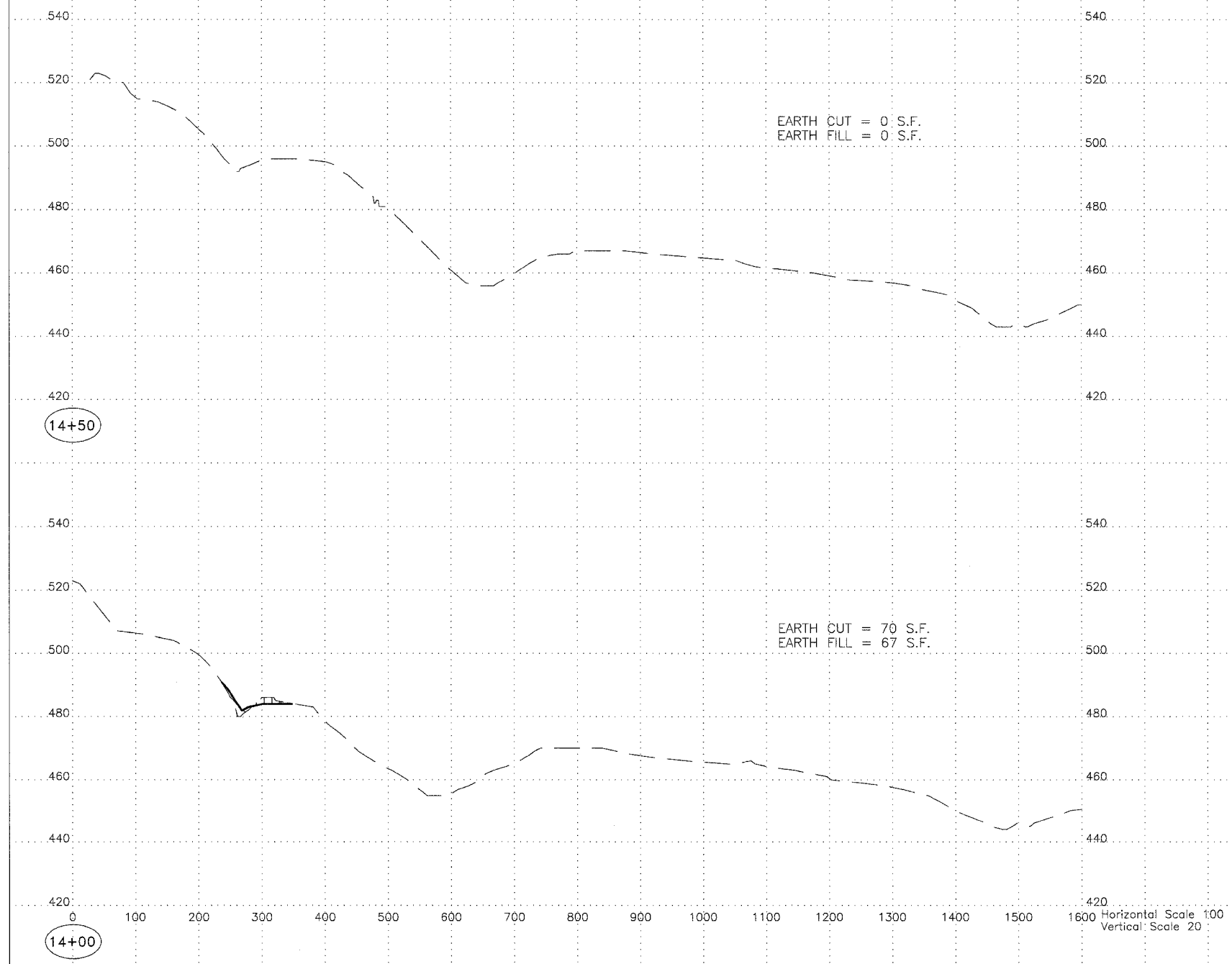
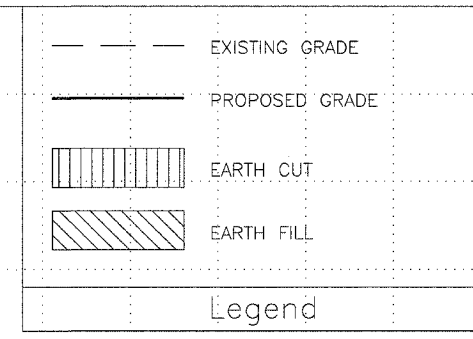


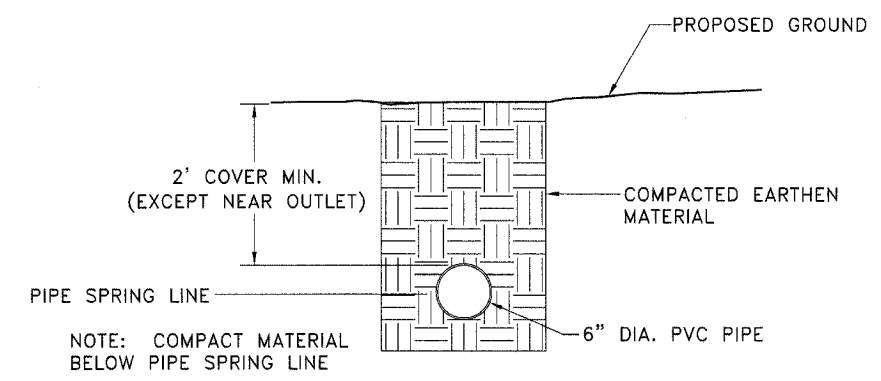
**Tab Simco Phase III  
Reclamation Project  
AML-GJkE-0611  
Jackson County**



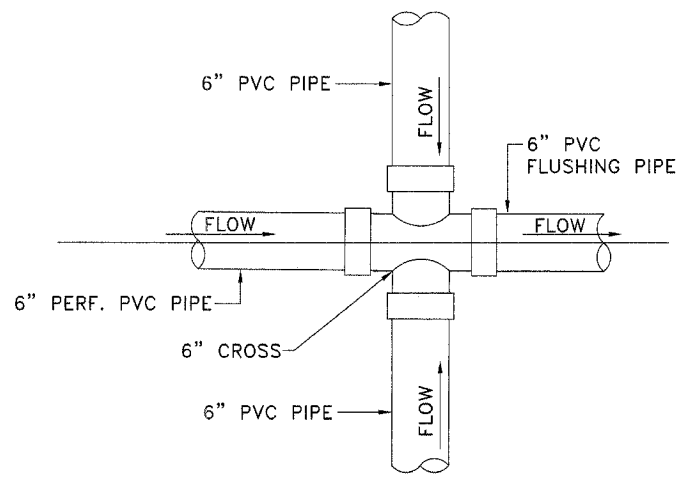




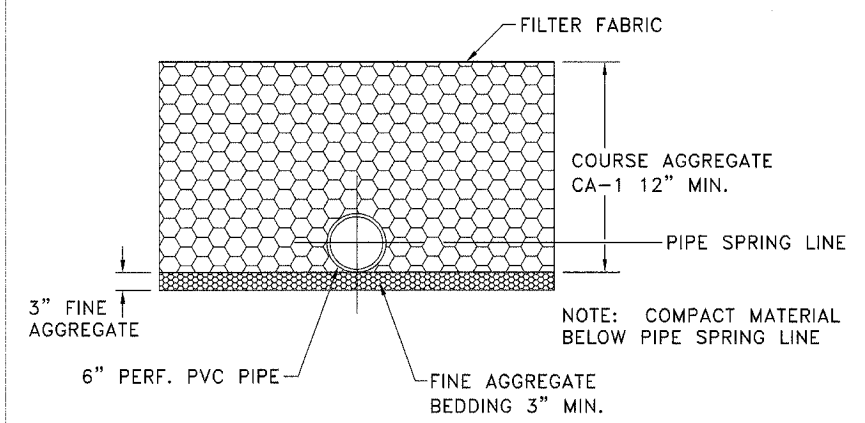




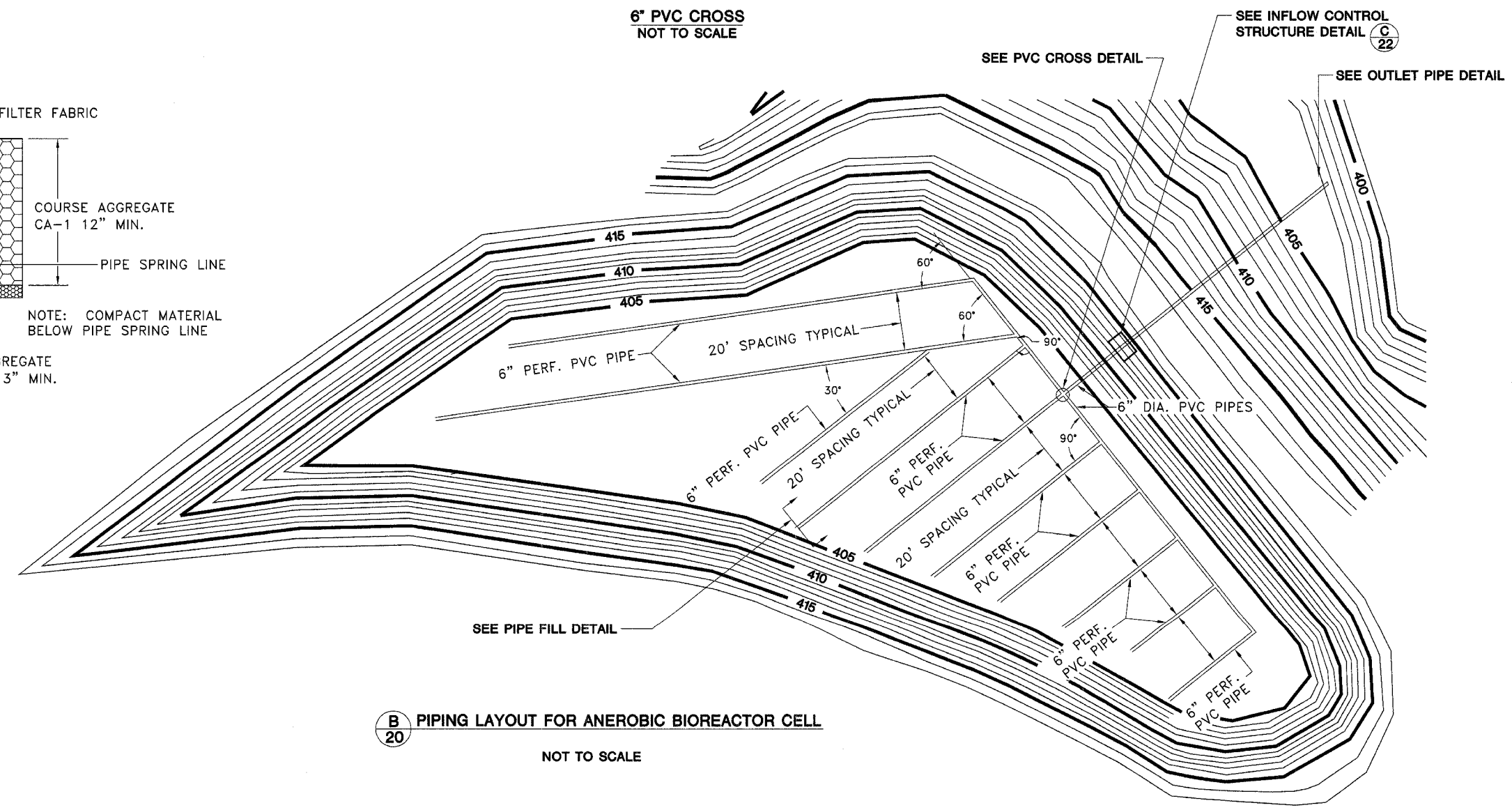
**OUTLET PIPE DETAIL**



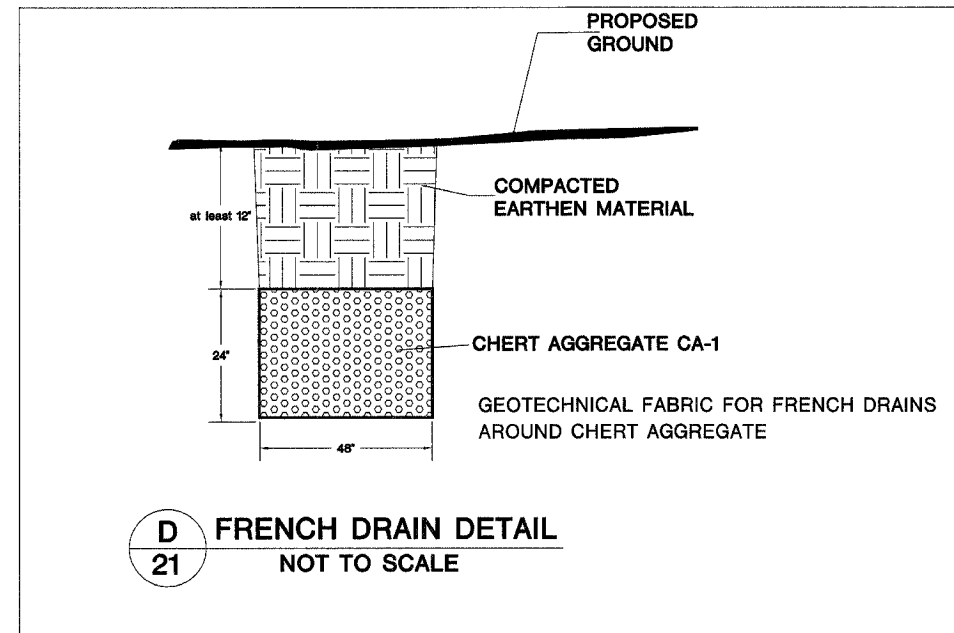
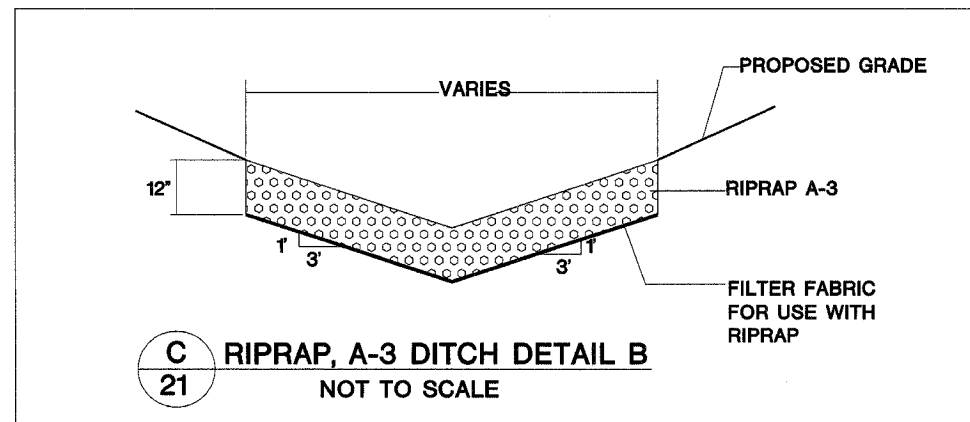
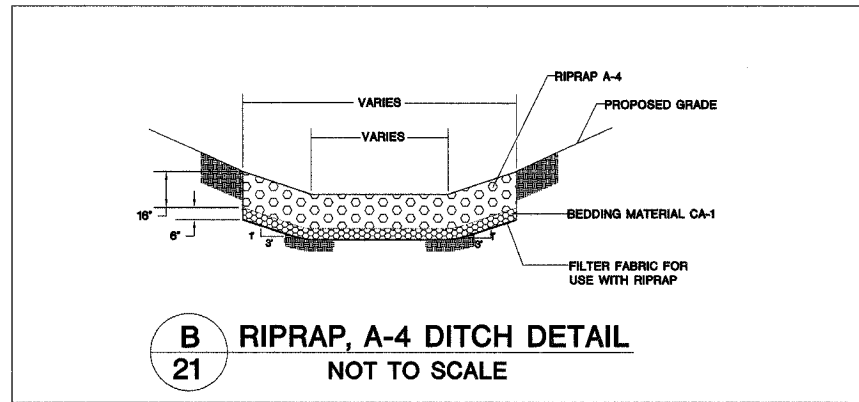
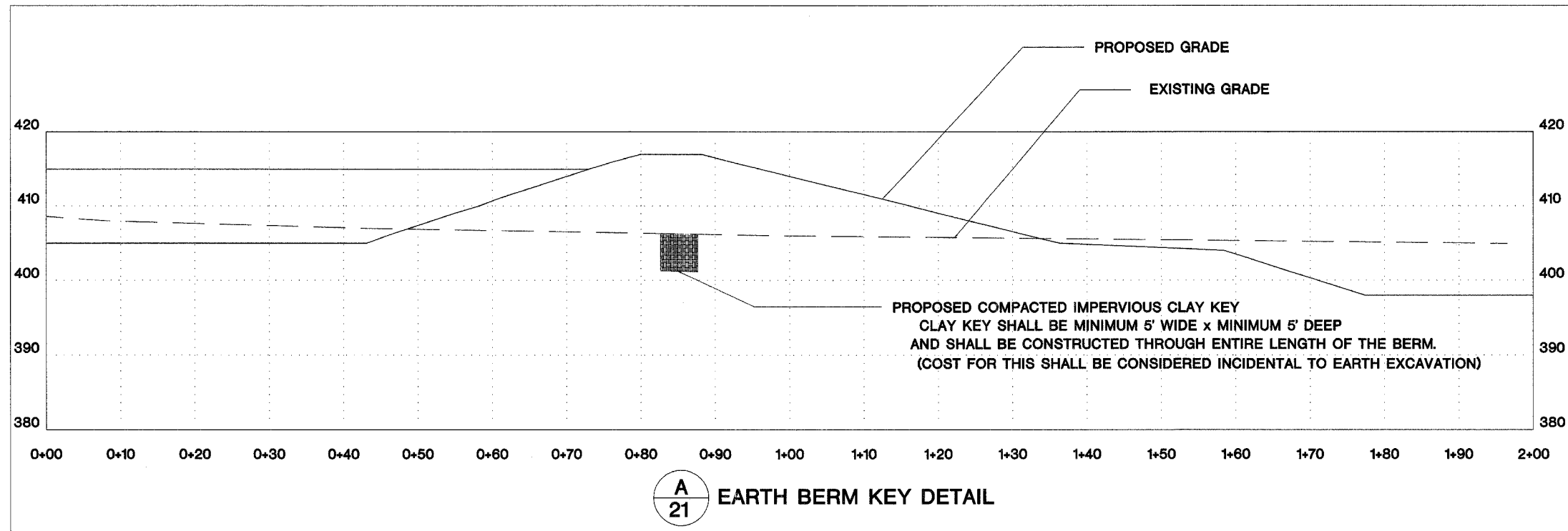
**6\"/>**



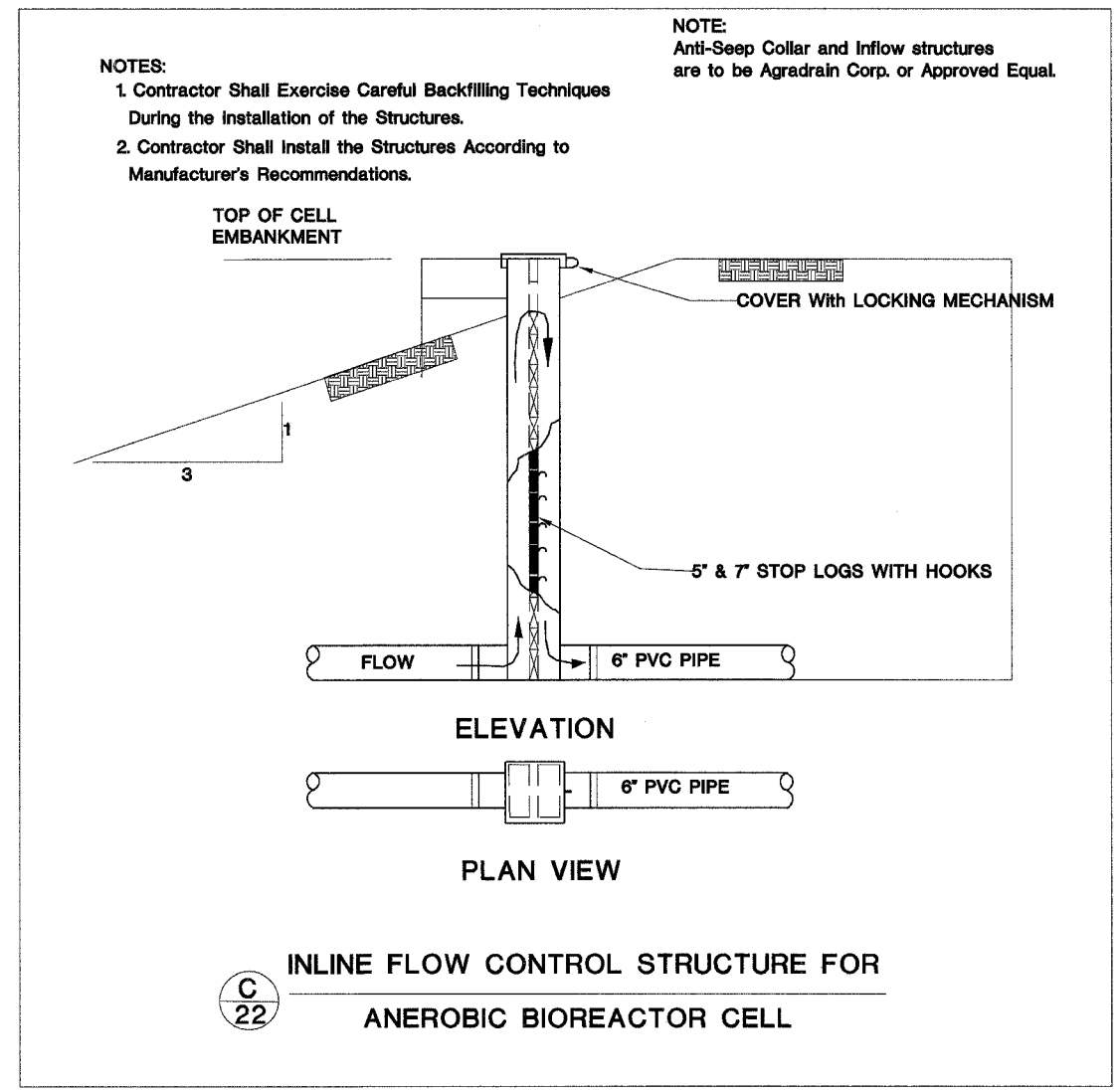
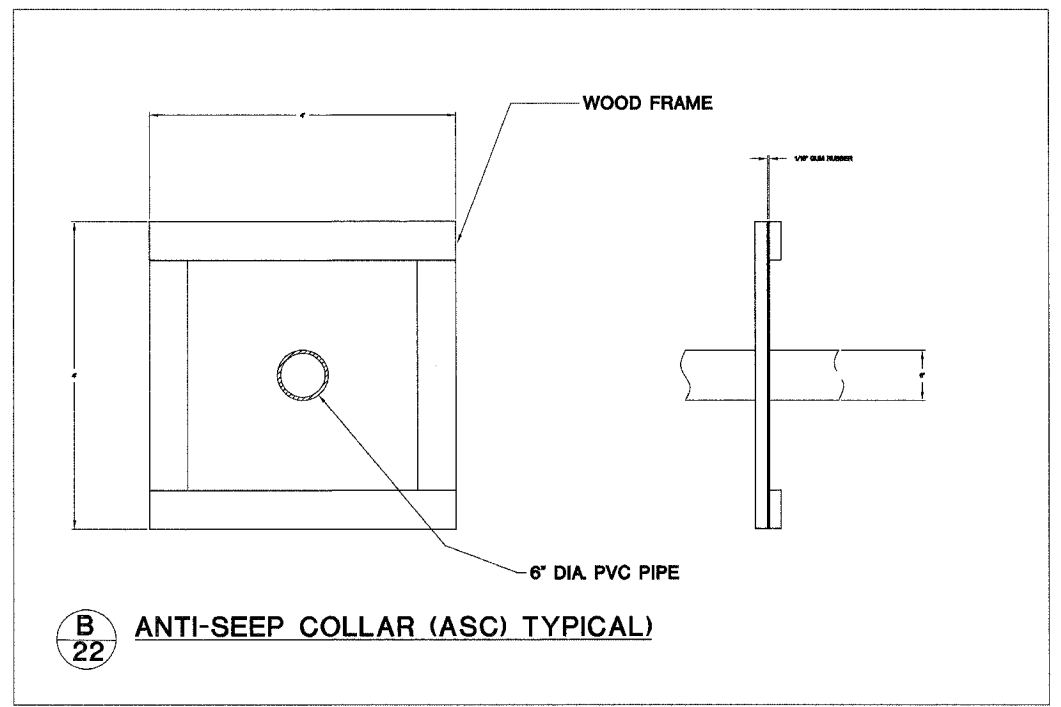
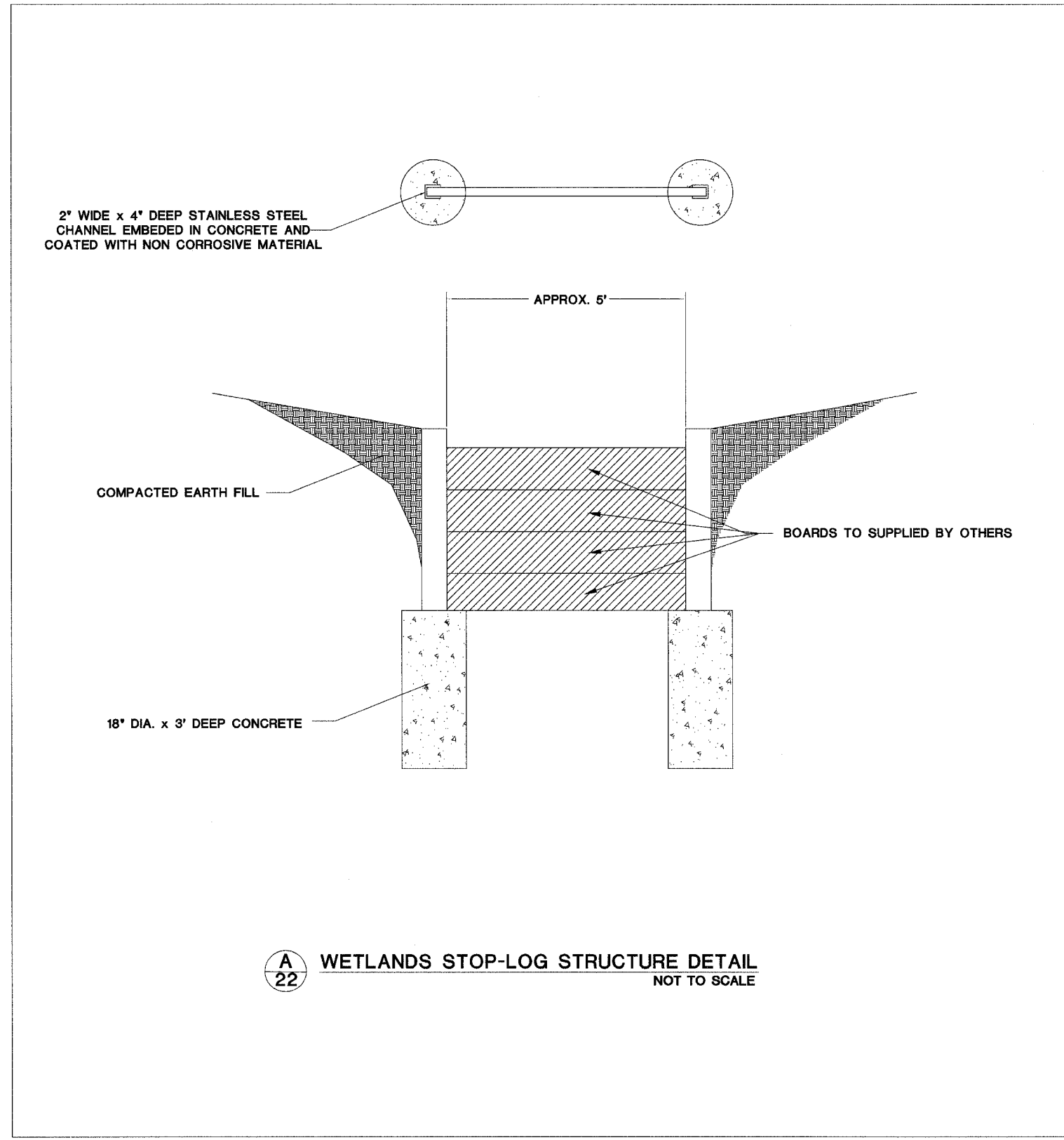
**PIPE FILL DETAIL**



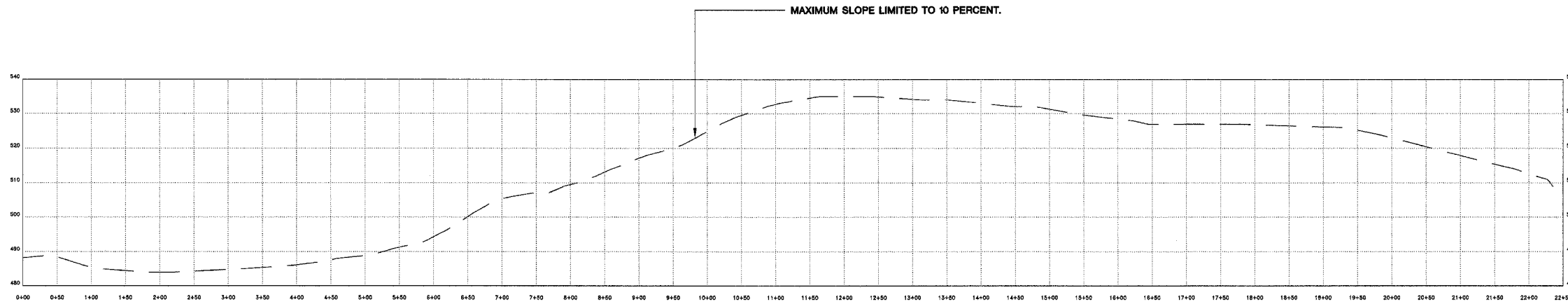
**B**  
**20** PIPING LAYOUT FOR ANEROBIC BIOREACTOR CELL  
NOT TO SCALE



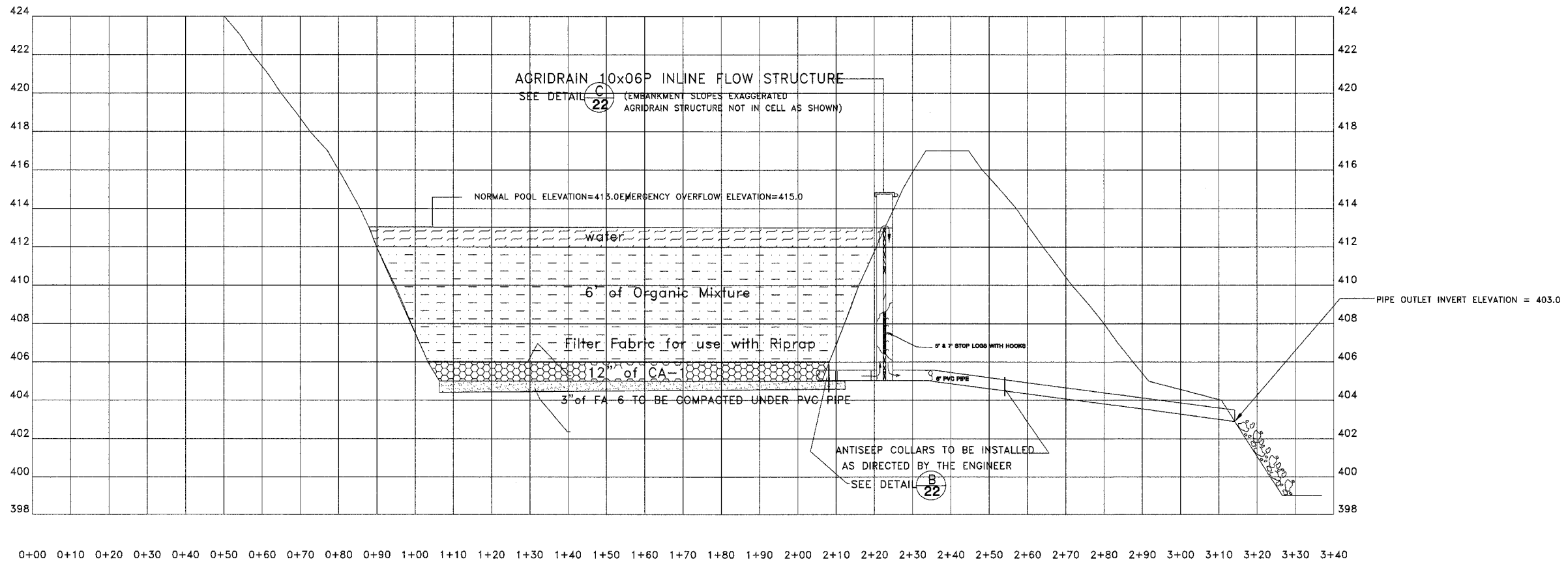
Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
Date: \_\_\_\_\_







**C**  
23 PROFILE OF CENTERLINE OF PROPOSED ACCESS ROAD



**B**  
23 TYPICAL SECTION THROUGH ANEROBIC BIOREACTOR CELL

Date:

Drawn By:  
Checked By:

SPACING LETTERS

2.0'	
1.5'	3.5'
1.5'	3.5'
1.5'	3.5'
1.5'	3.5'
3.5'	3.0'
3.5'	2.5'
1.5'	2.5'
3.5'	
1.5'	2.0'
2.0'	2.0'

**RECLAMATION PROJECT  
of the  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF ILLINOIS**

**ROD BLAGOJEVICH, GOVERNOR**

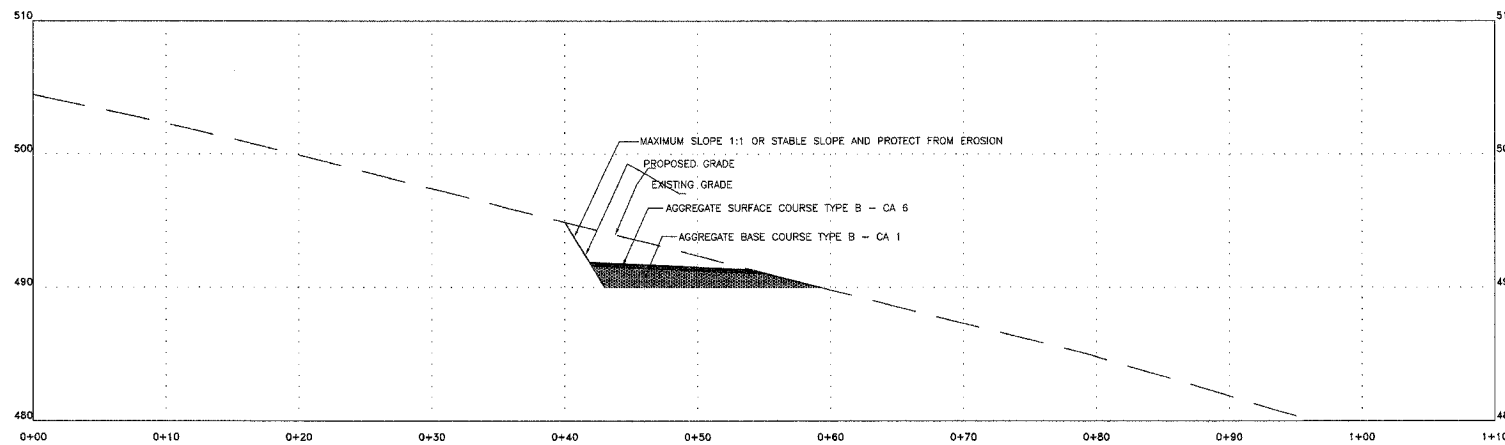


Sam Flood, Acting Director  
Department of Natural Resources

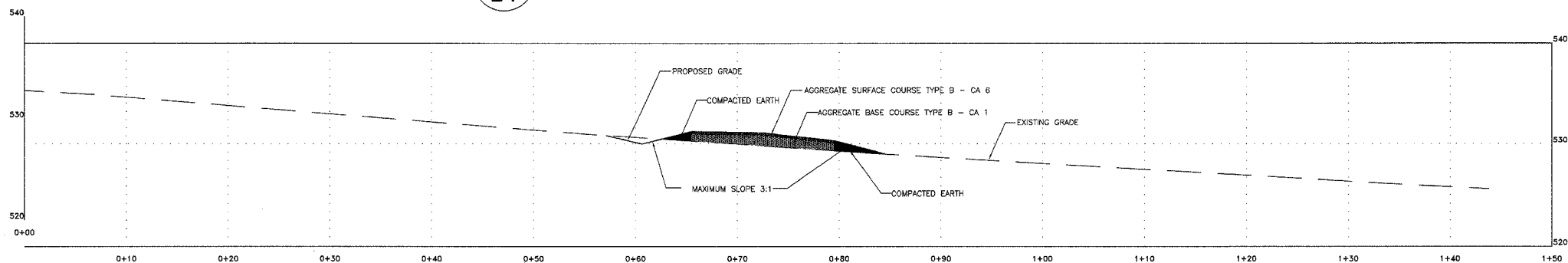
In cooperation with the Office of Surface Mining  
United States Department of the Interior

1. Furnishing, erecting and removing the sign shall be incidental to the contract.
2. The sign shall be painted on 1/2" or thicker exterior plywood (4' x 8'), color shall be black on white, and a 10" diameter Illinois state seal shall be provided by the D.N.R.
3. The posts shall be made of 4" x 4" wood or 2.5" metal pipe, and shall be 10' long. The sign shall be securely fastened to the posts with six 2.5" long, round head wood screws (for wood posts) or four 5" long, 3/8" diameter carriage bolts (for wood or metal posts).
4. The top of the sign shall be level with the top of the posts, and the posts shall be 1' from the edges of the sign. The posts shall be set in the ground 3', so that the bottom of the sign is 3' from the ground.

**A CONSTRUCTION SIGN DETAIL**



**B TYPICAL ROAD SECTION THROUGH CUT AREAS.**



**C TYPICAL ROAD SECTION THROUGH FILL AREAS.**

Drawn By: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
Date: \_\_\_\_\_